# Manufacturers Record

A WEEKLY SOUTHERN INDUSTRIAL, RAILROAD AND FINANCIAL NEWSPAPER

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## Manufacturers Record

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BALTIMORE, JANUARY 23, 1913.

## FOODSTUFFS EXPORTS DIMINISH

Of six leading groups of exports of merchandise, constituting as to value about half of the annual exports of merchandise from the United States. cotton continues to maintain its prestige, while there is a marked tendency to decline noted in the groups broadly classed as foodstuffs. Preliminary figures of the six groups as recorded at the leading ports, and comparing the calendar years 1911 and 1912, follow:

	1911.	1912.
Breadstuffs	\$122,837,787	\$149,619,170
Cottonseed oll	21,694,345	21,674,185
Cattle, hogs, etc	14,289,509	3,551,214
Meat and dairy	136,630,376	123,244,010
Cotton	517,018,921	622,758,220
Mineral oils	104,386,320	121,875,382
Total	2016 857 258	\$1,042,722,181

In the aggregate these six groups of exports had an increase in value in 1912 over 1911 from \$916,857,258 to \$1,042,722,181, or by \$125,864,923, equal to 13.7 per cent. Raw cotton led in the value of increase, with \$105,739,299, breadstuffs being second, with \$26,781. 383, and mineral oils third, with \$17. 489,062. The aggregate increase for these three groups was \$150,009,744. Against that, however, was an aggre gate decrease for the three other groups amounting to \$24,144,821, meat and dairy products leading, with \$13,386,-366, or at the rate of 9.8 per cent., cattle, hogs and sheep being second, with \$10,738,295, or at the rate of 75.1 per cent., and cottonseed oil third, with

The 1912 exhibit is so marked that it has led the Bureau of Foreign and Domestic Commerce to comment upon the rapid disappearance of meats and breadstuffs from the country's exports.

leading ports as a basis, the bureau shows that the exports of cattle have declined from 599,000 in 1904 to only 33,000 in 1912, and their value from \$41,000,000 to \$3,000,000 in the same period. So, too, there has been a marked falling off in the exports of meat, and, although breadstuffs had a larger total value in 1912 than in 1911. that value was \$50,00,000 less than the value five years ago.

Of the aggregate 1912 value of the six groups of exports, \$1,042,722,181, raw cotton exports, \$622,758,220, constituted 59.7 per cent., and the value of exports based upon the cotton plant was in the neighborhood of \$700,000,000.

#### THE INCREASE IN SOUTHERN WEALTH.

Individual deposits in financial institutions in the South reached in 1912 a total of \$2,322,904,762, of which \$1,059, 068,475 were in National banks and \$1. 263.836.287 were in other financial institutions. In 1900 such deposits aggregated \$334,649,683 in National banks and \$346,803,574 in other financial institutions, a total of \$681,453,257. The total in the South in 1912 was more than three times the total in the South in 1900. In the 12 years the increase in such deposits was at the rate of 240.8 per cent. in the South and 124.3 per cent, in the rest of the country, The increase in individual deposits in National banks is shown by States in the following table:

## Individual Deposits in National Banks

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Ala	\$10,938,390	\$32,911,447	\$41,601,123
Ark	3,102,316	15,312,911	18,785,149
D. C	18,210,911	23,402,653	26,150,836
Fla	6,435,441	26,086,580	32,035,316
Ga	10,864,849	44,941,972	47,821,518
Ку	27,755,376	54,726,391	61,942,583
La	20,308,028	31,374,574	40,187,107
Md	42,941,481	77,790,163	86,157,395
Miss	64,448,555	12,768,304	13,968,915
Мо	3,878,627	143,758,257	147,298,089
N. C	7,477,058	26,268,062	34,566,493
Okla	5,262,842	45,767,788	62,445,612
S. C	5,171,644	18,310,939	19,673,137
Tenn	22,082,775	52,080,802	60,864,395
Tex	49,749,109	175,959,283	223,425,335
Va	20,473,458	73,652,398	90,329,822
W. Va	15,548,823	44,091,084	51,815,650

Total... \$334,649,683 \$899,203,608 \$1,059,068,475 S.....\$2,508,248,558 \$5,304,788,306 \$5,944,561,070

This increase in deposits in National banks has come about since the passage of the act permitting the organization of National banks with as little as \$25. 000 capital, and, in the case both of National banks and of other financial institutions, in consequence of the era of prosperity which the South has enjoved since, with the turn of the century, raw cotton began to bring remunerative prices to the growers. In 1890 there were 676 National banks in the South and 2864 in the rest of the country. There was a comparatively slow increase by 1900 to 803 in the South, or at the rate of 18.8 per cent, and to 3068 in the rest of the country, or at the rate of 7.2 per cent. There are now in the South 2048, only 47 fewer than With the preliminary figures of the the number in the whole country in

1880. The increase in number between 1900 and 1912 was at the rate of 155.4 per cent, in the South and 75,1 per cent, in the rest of the country.

In the 12 years the increase in individual deposits in National banks was from \$334,649,683 to \$1,059,068,475, or by \$724,418,792, equal to 216.4 per cent. in the South, and from \$2,173,598,875 to \$4,885,492,595, or by \$2,711,893,720, equal to 124.7 per cent, in the rest of the country. In the same period the increase in individual deposits in other financial institutions was from \$346. 803.574 to \$1.263.836.287, or by \$917,-032,713, equal to 238.4 per cent, in the South, and from \$4,434,090,118 to \$9,-934,770,157, or by \$5,500,680,039, equal to 124 per cent, in the rest of the country.

The greater rate of increase in the South reflects the wonderful development of the past few years in agriculture, mining, lumbering, manufacturing and commerce in that section. In the main on all these lines the South is absolutely in advance of the whole country in 1880, and in proportion to area and population far in advance. Since 1880 the South has been able to resume its industrial and agricultural activities that had been interrupted by the war and subsequent demoralization in political life, and the progress that it has made is a guarantee that the end of the next 30 years will find the South as flourishing and as well off in proportion to population as the whole country is today.

### THE SOUTH AND ENGLAND IN TEXTILES.

A brilliantly illuminating sidelight the long-sustained attitude British textile interests toward Southern cotton growers is cast by a recent discussion of the question of the textile relations of England and India. Many years ago, about the time of the South's first expansion in the textile industry in the late forties, English manufacturers planned to develop sources of raw material for their spindles and looms in other parts of the world than the South. This plan was vigorously revived about 10 or 12 years ago when Southern cotton began to bring prices that made it profitable to the growers. It then became almost a fixed annual habit, about the period of the beginning of the movement of the new crop to market, to give publicity in England, for transmission to this country by way of the newspaper press or through consular reports of the United States Government, to the proceedings of gatherings expatiating upon the success or upon the prospects of success in cotton growing in the domains of the British Empire, reports calculated to depress the price of raw cotton. But the South has gone on raising cotton in ever-swelling volume and-rather short-sightedly ending an ever-increasing volume of the raw staple to other lands to be manufactured. Food for profound thought

that ought to lead to practical results of immense advantage to the South is supplied in the incident, recorded in a frame of self-justification by the Textile Mercury of Manchester, England, of the application of a young East Indian for admission to a Lancashire cotton mill for the purpose of learning all the details of the industry, presumably for use in his native land. His application was refused in the following

We have carefully considered your request to be allowed to learn the cotton manufac-turing business at our mill, and I am sorry to tell you that we cannot consent to your proposal. I have written to Mr.
giving him what I have to suggest on your
behalf, but when everything is said the fact
remains that we in Lancashire do not want to encourage the building of mills in India. We want to supply India with manufactured goods, and it is on the face of it against our interests to teach you or any other young Indians our business in order that you may take it away from us,

At Bombay malevolence is attributed to this refusal. That, however, is an unjustified judgment, consequent, perhaps, upon a belated lurking at farremoved points of an impression that much of British philanthropy in the past was not largely Pecksniffian in character. As the Mcreury truly and appositely says:

Neither in Lancashire nor in any other lace do manufacturers receive into their osoms all who offer to come and learn all they can and then to go away again. The objection to taking in learners is in no sense restricted to Indians or strangers from other In point of fact, granting that the learner is going to utilize the training by starting in business for himself, the farther away he takes himself the better his old master is likely to be pleased. Those who have any doubts on the subject may refer to the "radius agreements" by which traders are wont to protect themselves within the borders of England even from their fellow

It is almost second human nature for men to decline to aid in upbuilding others who may subsequently undermine them, especially men who have the restricted conviction that there is only so much to be done in the world, and that, therefore, an increase in the number of doers will limit the opportunities of all for gain. Besides, in the textile industry, as in other lines of manufacturing, some individuals hold their position of strength because or their exclusive possession of formulae or processes. In justice they cannot be expected to give away their secrets. The frame of mind of Manchester is rather a common frame of mind.

Nevertheless, the frank statement that "we in Lancashire do not want to encourage the building of mills in India" is interesting and highly suggestive. Manchester is the center of the English textile industry. In the United Kingdom there are more than fifty-five million spindles and more than threequarters of a million looms that must be kept at work to give a living to hundreds of thousands of operatives and other hundreds of thousands of wageearners, clerks and other employes in

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trade and transportation directly or indirectly dependent upon the maintenance and growth of the textile industry. The bond between India and the United Sates in this respect is revealed in the fact that the main reliance of Great . ritain for its raw mate rial is the South, and the greatest market for its export cotton goods, which had a value of \$595,584,160 in 1911, is India. Of course, as has been demon strated more than once, the anxiety in Manchester about India in connection with cotton is that the right sort of cotton shall be raised there in sufficient quantities, and that the teeming millions of its population shall look to England for their cotton goods. Logically, the same conviction must be held as to the South as a source of supply of raw material. Considering its potentialities to the contrary, the South has done comparatively little to modify that conviction.

Since 1880 the South has raised 304, 726.865 bales of cotton. Of that immense production it has sent to foreign lands 199,627,529 bales, or 65 per cent. of the total. In 1880 it exported 67 per cent. of the total and in 1912 slightly more than 65 per cent. Of the total exports in the latter year 40 per cent went to Great Britain, about 1,500,000 more bales than the Southern mills con-Since 1880 the South has insumed. creased its consumption of its own cot ton from 179,000 bales, or about 3 per cent, of the total crop and one-tenth of the amount consumed in this country, to 2.744.067 bales, or 17 per cent. of its total crop and more than half of the amount consumed in the country. Wonderful as that progress has been, including a notable tendency from the production of common goods to a diversification representing at least a hun dred classes of goods, it has hardly reached a stage beyond that of demonstrating the possibilities of the South, not only as the dominant region in cotton growing, but as a future situs of the cotton-manufacturing industry of the world. That future will arrive just as rapidly as the South enters upon its true career of manufacturing at home the greater part of the cotton that it grows, welcoming foreign investors and foreign operatives if needed to give it its full stature.

## THE SOUTH A LAND OF ALL-THE-YEAR CROPS.

Isaac A. Fulwood, president of the Georgia-Florida Land & Investment Co. Tifton, Ga., writes to the MANUFACTUR ERS RECORD AS follows:

You are doing more for the upbuilding of ur Southern country than any other publication in the country, and every man in terested in the South, business man, farmer r or land cwner, ought to read your There is no better section of America today for investment, for homes, or for pec with small means to locate branches of business, manufacturing, farming, stock raising, and all kinds of fruit pecans, trucking, etc. We have the best climate and lands suited to all crops, health is perfect, and our lands are cheap compared to other sections, and can be bought on easy terms. The land is easy to work and can be put into cultivation at little expense; our climate is such that we can grow crops and ship to our Northern cifies and get good Then we grow our general farm supply our needs at home and home We can grow all the crops that can be grown in the West or any other see tion, and a good many that they cannot grow owing to climate. We have plenty of rainfall, do not have to irrigate, and do not have to build expensive barns or houses. Our stock can have open pasture the year around, and some crop is grown every month in the year to feed man and beast. The day is coming when the lands of the South will

be worth more money than any other section our country, and now is the time to buy when the man with little money can You are making a good fight for the uth through the MANUFACTURERS RECORD, are doing.

#### INTEREST IN MONETARY RE-FORM.

While there may be no general assent to all the details of the plan of William A. Nash of New York, chairman of the board of directors of the Corn Exchange National Bank and formerly chairman of the Clearing-House Asso ciation of that city, for the creation of regional clearing-houses, with authority to issue loan certificates convertible into Government currency at 50 per ceat, of their face value, his suggestion will undoubtedly receive the serious attention of students of finance who be lieve that the means for diminishing the possibilities of financial stringencies and of mitigating them when they arise are to be had not in further concentration of financial power, but in decentralization of it. In a statement before a subcommittee of the committee on banking and currency of the National House of Representatives Mr. Nash. according to the New York Times, said

The system of banking in the United States is a growth out of the honest intentions and intelligent thought of the people It is suited to their affairs and has beer successful in most ways in handling them I have no sympathy with the quotation of banking methods as reflection rn. What we have done in the tablishing of banks and their consolidation into clearing-houses is an American solution of the banking problem, and should be care fully considered in all legislation that seeks to improve banking and currency. The sen-sitiveness of credit has passed into ar axiom. Only the inexperienced or the reck ess will seek to trifle with it. conservation of existing and well-tried business machinery is the true policy for the legislator. Especially in finance, the closer the law aligns itself with the familiar and the long established the greater will be

therefore, urge that the clearingof the country shall become the initial as ociations to which shall be committed the basis on which currency shall be issued. This is urged because the most competent shall be judges of credit are the bank officers of the ountry, and, acting through clearing-hou where their responsibility is a matter of grave concern to them, the prerequisites of a sound substructure for currency cannot be

elieve that in the creation of twenty clearing-houses, representing geographically the whole of the country and the protection of legality about their organization and acts, we take the first steps toward the solution of our so-called difficulties

Financial history shows that panies and rises do arrive, and probably will during Il time. That those convulsions are more all time. violent in our own country in contradistine other nations may be attributed cipally to the cash basis of m

With the emergency currency bill on our statute books, I do not hesitate to say that I believe that the issue of clearing-house loan certificates all over the country would be automatically resorted to in case of a financial panic. The reason is plain. The bankers and the people who trust them with their money understand this often-tried and perfectly successful device for expanding credit temporarily or until a distressing situation is overpassed.

With every issue of loan certificates there has come a hoarding of currency. The necessary implement of the small exchanges of life, the pay of the laborer and the work es very scarce and at a premium If the clearing-house loan certificate fully guarded by men and securities could be convertible into a Government currency upon demand-say at 50 per cent, of its fac would be no hoarding if there was a certainty of an abundant supply from the Government. Nay, more than this, there would be no use of such a currency if the certainty of issue were felt, because the mal condition would not be disturbed. In a panic it is credit that is clamored for, and

ot currency. It is my belief that the use of the existing system of clearing-houses forms the best and

system of crearing-nouses forms the best and the least disturbing basis for the expansion of credit and the supply of currency. The question naturally gives, Who will give the signal for the issue of loan certifi-cates? Who better than the bankers, whose interests are so deeply concerned in their validity and who know sooner and better than any other class of men whether the sity is real or manufactured? Certainsuch a source for the initial step is much ore reliable and less under suspicion than any central body of men far away from the nflict which appeals to the of the co aring-house for help.

It is useless and dangerous to turn bank ing business over to any one but bankersot to theoretical bankers, but to the know the wants of the people and know in what measure help should be given. The banker prefers always to rely upon natural course of business. His inst are against changes or experiments. upon the His instit knows that both are full of danger and un The reluctance with which loan have been issued in the past is certificates have been issued in the past is the highest testimony to the honesty, the wisdom, the forbearance, and the foresight that are natural characteristics of those in charge of other people's money. In conclusion, I would urge caution in

taking unnecessary and purely hypothetical steps in currency reform. A moderate and restricted action is to be advised in preference to what is called sweeping refor

Currency and credit, the latter being of far greater volume than the former. instinctively follow natural channels unless artificial devices are resorted to for the purpose of increasing the power of reservoirs. If artifice is not resorted to, such reservoirs will naturally develop, but artifice that swells the volume in such reservoirs, while benefiting immediately the reservoirs, calls for heavy financial burdens imposed upon the whole country, and is fertile source of undue irregularity in the flow. There are a number of propositions for so-called currency reforms before the country, some of them based upon the experience of foreign lands, some of them calculated to intensify the present evils or drawbacks for the benefit of a comparative few, and some of them turning upon purely theoretical conditions, ideal, to be sure, but overlooking, as frequently happens with idealism, the rather important element of human nature. Though conditions in foreign lands, such as England, Germany and France, may have given rise to banking methods which would be unsuitable for the United States, there may be features of those methods which may be applied to this country. So, also, though men who have advocated a system of regional clearinghouses under strict supervision of the Federal authorities as decentralizing agencies of relief for the currency situation, they may not be willing to go to the extent that Mr. Nash advocates.

To the laymen the pressing necessity in banking and currency seems to be not additional legislation on the line of that which has resulted in increasing natural powers of great centers, but a repeal of such legislation as being of a character to interrupt the natural laws of currency and credits, and if there should be any legislation, legislation somewhat on the lines laid down by Mr. Nash.

## TELLING OF MINERAL WEALTH.

The Legislature of Tennes afford to grant the request of the State Geological Survey for an increase of \$4000 annually in the appropriation for the Survey. Since its organization, about two years ago, that branch of the State's activities has been doing a great work of publicity for the natural

couragement of investment in their development. Periodically it issues a bulletin embodying the results of its investigations which have a decidedly practical value, but the Survey is handicapped in not having the services of a chemist. The additional appropriation will be a good investment for the State.

### GENERAL MANAGER OF THE BUSINESS OF THE COUNTRY.

Several elements in the population of Washington are naturally disappointed at the letter of Woodrow Wilson discountenancing the Presidential inaugural ball. But the spirit of the letter is appreciated by those people of the country who dislike the idea of the President of the United States being used as an advertising agent. The inaugural ball is one of the unnecessary functions calculated not only to give a few individuals a bit of ephemeral notoriety, but also to attract the crowd to Washington upon the occasion of the inauguration of the President of the United States. Hotel managers and proprietors of restaurants, dairy lunches, department stores are, of course, prone to welcome any expedient for increasing their legitimate sales-and their attitude is essentially natural-and folks of "importance in society" to lose no chance to strengthen their position based upon unreality. But they forget, and results in the past of their enthusiasm over the inauguration as a means of temporarily increasing the population of their city have tended to induce widespread forgetfulness of the fact, that the inauguration is essentially the act of inducting into office the man selected to be the general manager of the business of the people of the country for four years.

In the early days of the simple life, of stage coaches and pillions, there was comparatively little in Washington between the White House and the unfinished Capitol save fields. Tiber Creek and the beginnings of residential sections north of the avenue, the residents and the comparatively few visitors attracted to the city by personal interest in the President may, with propriety, have rounded out inauguration day with a ball, and it may also have been perfectly convenient for the President to greet men and women who happened to come to the city during his administration. Since then, however, modern conveniences of travel have made it possible for tourists in everincreasing number to enjoy the substantial attractions of the city growing more beautiful with every year, regardless of temporary gatherings or the incumbency of the whole House, and for thousands to be brought there to witness the top-heavy, and at the end tiresome, parade from windows and stands rented at highly remunerative rates, to throng the caravansaries and to pay liberally for the privilege of being involved in the crush at the Pension Building at night, called by poetic license the inaugural ball. Then, too, it is very easy for other thousands in the course of the four years' term to seek the distinction - whatever that may amount to really-of being able to tell the home folks that they have taken up valuable time of the President in shaking his hand and being slid along the receiving line by alert and bedizzened aides.

Meanwhile, and in large degree conequent upon perversions of governmental functions, the duties and reresources of Tennessee and for the en-sponsibilities of the general manager

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of the business of the country, the President of the United States, have been vastly increased, so that all unnecessary demands upon his time and his nervous energy tend to hamper him in the performance of his duty, and hence should be reduced to the point of a disappearing minimum. That will be the beginning of the end of the use of the President of the United States, to the detriment of the dignity of his office, as a means of advertising all sorts of schemes, some of them perfectly legitimate, to be sure, but some of them illegitimate, and all of them beyond the range of proper appending to Presidential influence.

It used to be that New York was the great center for adventures of individuals earnestly obsessed by one idea of "social uplift," or those determined to make as easy a living as possible by their wits through the promotion of divers and sundry sociological, commercial, educational and philanthropic movements. This was so because in the metropolis were always to be found individuals willing to be regarded as philanthropists, or quick to suffer as unwitting "angels," or anxious for the provincial publicity coming with the use of their names in the membership of committees, boards, et cetera. About 11 years ago, however, accident brought it about that Washington became a rival center in such publicity, and the precedents then set made it almost second nature for that method of developing an easy source of living on a salary basis to turn upon the imprimatur of the President of the United States immediately or by deputy of some member of his Cabinet. Consequently there has been a widening of such opportunity by using Governors of the Several States, bureau chiefs, and so on down the line.

In many, many instances it has been necessary only to secure from the President a word in favor of a project, with the origin or intent of which he had absolutely no knowledge, to float utterly useless schemes having as their primary motive the realization of a real estate speculation or the enjoyment of a salary requiring no work but that of the jaws, and there is a record of one President having been persuaded to lead in taking a collection in a public meeting for the promotion of one of these undertakings. The cohesive power of public buncombe has become so great that quite a good-sized lobby of bene ficiaries with their access to "press' services can generally be depended upon at Washington to give support to any new scheme of the kind.

Attempts to maintain this policy will, of course, be made with the incoming of a new President. They will come upon him directly and indirectly in most specious guises, some of them. indeed, having been hastened in order to secure a local habitation and a name even before the change in personalities in public office at Washington. It is, therefore, hoped that the attitude of Woodrow Wilson toward the question of an inaugural ball may be a premonitory symptom of a determination on his part to bring about a reform at Washington, to the end that the general manager of the business of the people of the United States may have his mind and his hands free to attend to that business and to bring about the economies in the use of the money of the people which at present are most notable at Washington because of their

#### TEXAS CROP RECORDS.

The University of Texas has just issued full four-year scholarships to eight of the winners in the 1912 prize crop contest of the Texas Industrial Congress They were sent to Col. Henry Exall of Dallas, president of the congress, for his signature, and were then mailed to the fortunate young farmers. Miss Annie Lou Darby of Pittsburgh, Camp county, winner of \$25, the fourth prize in the Texas Cotton Club, is the only girl among the scholarship winners. She raised 2.03 bales on one acre at a net profit of \$\$4.71. The other winners are: Alford Branch, Overton, Rusk county, who received the first prize of \$250 in the Texas Corn Club for one acre of corn. His yield was 167.5 bushels, produced at a profit of \$95.35. Emil S. Kovar of Fayetteville. Fayette county, awarded \$125, the second prize in the same class, on a production of 125,27 bushels at a net profit of \$60,38. John R. Henderson, Birthright, Hopkins county, awarded \$75, the third prize in the Texas Corn Club, for a yield of 133.8 bushels at a profit of \$67.16. Henry Kovar, Fayetteville, Fayette awarded \$50, the fourth prize in the same class, on a yield of 118.22 bushels at a profit of \$64.95. II. W. Kloppenburg. Sublime, Lavaca county, awarded the secong prize of \$125 in the Texas Cotton Club for one acre of cotton on a yield of 2.09 bales at a profit of \$91.33. Webb Crow, Tyler, Smith county, awarded \$75, the third prize in the Texas Cotton Club. for a yield of 2.38 bales—the largest cotton production of Texas during 1912-net profit \$85.40. Raymond Baca, Fayetteville. Fayette county, awarded \$200, the second prize in Class D for two acres of kaffir corn or milo maize. His yield was 157.1 bushels, net profit \$48.49.

Mr. E. S. Kovar was entitled to the scholarship on two counts, as he was awarded the first prize in the Texas Cotton Club on a yield of 2.01 bales produced at a profit of \$91.68, in addition to the second prize in the Texas Corn Club.

The announcement of the 1913 prize offer of \$10,000 is now being distributed in pamphlet form. The number of acres in the four-crop model demonstration farm, known as Class A, has been reduced to four, and more prizes have been offered in the Texas Corn and Cotton Clubs, open to boys and girls over 10 and under 20 years of age. A combination prize of \$500 is offered to the boy or girl who shall win the first prize in both the Texas Corn and Cotton Clubs, and every school in Texas is invited to enter the contest.

## TO WIDEN COTTON OIL MARKETS.

With a view to widening the markets abroad for Southern cotton oil, Mr. Erwin W. Thompson, who for more than 30 years has been identified with the manufacture or the sale of cottonseed products and for the past year or more manager of the Observer Company at Charlotte, N. C., has been appointed as a cotton oil expert in the bureau of foreign and domestic commerce of the National Department of Commerce and Labor. Mr. Thompson will enter his office on February 1. and, after a couple of weeks at Washington occupied in familiarizing himself with his special duties and visiting the larger centers in this country of the cottonseed industry to acquaint himself with the desires of manufacturers, he will go abroad to visit France, Germany, Austria and Russia and wherever he may discover chances for the marketing of cottonseed products or new uses for them. He announces that he will be glad to receive at the bureau at Washington letters suggesting special points needing investigation in Europe.

# National Corn Exposition at Columbia.

Columbia, S. C., January 18.

The National Corn Exposition, whose aim is to present in the simplest manner the truths which the agricultural institutions of the various States have worked out after years of experimentation, will be held in Columbia, S. C., from January 27 to February 8. This will be the first time in the five years of its existence that the exposition has been held in a Southern State, having heretofore shown in the Middle West. South Carolina now holds the world's record for the largest crop of corn produced on one acre. In 1885 Capt. Z. T. Drake of Marlboro county raised 255 bushels of corn on a single acre and won n prize of \$1000. In 1910 Jerry Moore of Florence county, who was then 13 years old, bested the record of 60,000 boys in the corn clubs conducted under the farm demonstration branch of the United States Department of Agriculture by producing 228 bushels and 3 pecks of corn on his acre. These facts undoubtedly had weight with the directors of the National Corn Exposition when they decided to hold their fifth show in the capital city of South Carolina.

The scope of the National Corn Exposition is much broader than its title indicates. It will be a great university of agriculture, seeking to demonstrate everyone who visits it new as well as fundamental facts about the industry which is of vital interest to the South and the nation.

Besides the United States Government 27 States have pledged exhibits for the exposition. These exhibits will not be essentially exploitive of the resources of the States, but will have for their predominant purpose the graphic illustration of those processes, methods and princioles which have been proven to be requisite to a more profitable cultivation of the

The States which will have agricultural exhibits at the National Corn Exposition are the following: Texas, Rhode Island, Washington, Missouri, Michigan, Illinois, Georgia, Wisconsin, South Carolina, Iowa, Delaware, Alabama, Indiana, Maryland, North Carolina, New York, Ohio, Kansas, Pennsylvania, Mississippi, Minnesota, Louisiana, Nebraska, Virginia, South Dakota, Kentucky and Oklahoma.

James Wilson, the veteran Secretary of the United States Department of Agriculture, and the committee on agriculture of the United States House of Representatives will visit the National Corn Exposition on Saturday, February 1, which will be Boys' Day at the show. Secretary Wilson will deliver an address. Sir Horace Plunkett will be among the visitors to the exposition. The famous founder of the Irish Agricultural Organization Society will speak at the exposition on Thursday, January 30, National Farmers' Union Day. Sir Horace was invited to attend the exposition by C. S. Barrett, president of the National Farmers' Union, and E. W. Dabbs, president of the South Carolina branch of the organization. The subject of the address to be delivered by Sir Horace Plunkett has not yet been made public, but he will in all probability speak on an agricultural subject of inter national significance. For South Carolina Day, January 28, an elaborate program, including a gigantic parade in which almost all the industries of the State will be represented, has been prepared. Mayor T. C. Thompson of Chattanooga, Tenn., will be the orator. Many men prominent and a special room for lectures by the

in the affairs of the nation will attend the exposition.

A unique feature of the exposition will be a school during the first week for boys who won the prizes in their corn clubs and girls who were successful in their tomato clubs. The sessions of the exposition's school for prize-winning boys and girls will be held from January 27 to February 1. It will be in charge of J. B. Hobdy of Alabama, an assistant to the agent in charge of the boys' corn clubs in that State and a prominent educator. It is expected that about 800 boys and 50 girls will attend the exposition's school, which will assemble the prize winners in the boys corn clubs and the girls' tomato clubs in the various States of the South and give recognition to their efforts to advance the ause of scientific agriculture, besides affording them an opportunity for instruction by agricultural experts. A number of boys who won prizes for corn raising in Northern and Western States will attend the school as the guests of the Southern boys. It is estimated by those in charge of the school that, exclusive of railroad fare, the expense of attending the school for a week need not exceed \$12. A special dormitory and dining-room for the boys have been fitted up on the exposition grounds. The girls will be in charge of several matrons and teachers, and will have their quarters in the city. A bronze bust of Seaman A. Knapp will be one of the prizes awarded in the school.

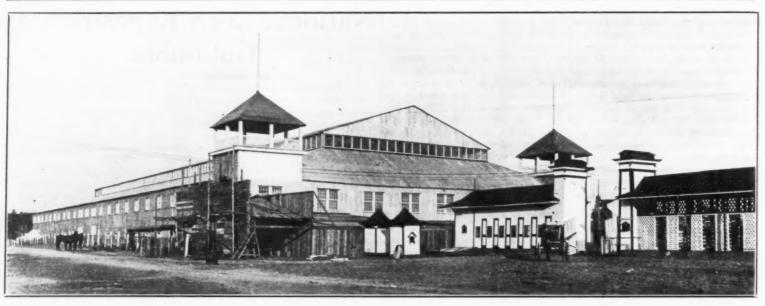
All the exhibits at the National Corn Exposition will be housed under one roof. which covers a total of 120,000 square feet of floor space. The buildings will be comfortably heated at the time and brilliantly illuminated at night. In case the weather is inclement, visitors to the exposition need not fear that they will be exposed to it, as everything has been done for their comfort and convenience while at the exposition

The main building at the exposition, a steel-frame structure costing \$40,000 and containing 70,000 square feet of floor space, was erected on the State fair grounds especially for the National Corn Exposition. It will house the exhibits of the 27 States and four large sections of the Government exhibit and the machinery exhibit. The latter will be one of the nost complete of its kind which has ever been shown at an agricultural exposition, comprising farming and dairying implements of every description. The numberless ways in which the gasoline engine can be used on the farm will be ably demonstrated. It will be shown doing everything from pumping water to milk-

In the east wing of the building will be shown the exhibits of the boys' corn clubs and girls' tomato clubs. Every boy who attends the exposition's school will bring his 10 best ears of corn, and every girl will place on exhibit the same number f her best cans of tomatoes. These exhibits will be judged by experts and prizes awarded for the best.

Adjoining and connected with the east wing is an auditorium with a seating capacity of 2500 people. Here the various addresses and lectures on agricultural subjects will be delivered. The acoustic properties of the auditorium have been pronounced excellent by those who have

The United States Government will have a hall for its moving-picture show



THE STEEL FRAME BUILDING COVERING 70,000 SQUARE FEET OF FLOOR SPACE WHICH WILL HOUSE EXHIBITS OF THE GOVERNMENT AND TWENTY-SEVEN STATES AT THE NATIONAL CORN EXPOSITION IN COLUMBIA, S. C.

farm demonstration bureau experts who will attend the exposition. The Government will show an interesting film giving the embryology and life-history of the cattle tick, a pest which is costing the South millions of dollars in its livestock industry every year. A part of the Government exhibit will be a dipping vat which will demonstrate the best method of killing the tick on infected cattle. Although part of South Carolina is in the cattle tick quarantine zone, there is not a single dipping vat in the State.

Winthrop College, South Carolina's normal and industrial school for girls, will be given a special hall for its exhibit at the exposition. This will comprise an ideal rural school and another one in which century-old methods are still in use. The college will also show in miniature an ideal farm home.

The exhibit of the United States Department of Agriculture will be under the direction of F. Lamson Scribner, commissioner in the bureau of plant breeding. He will be assisted by 10 department men.

An interesting exhibit will be that of New York State, which will be gotten up by Cornell University. An ideal county fair will be a feature of this exhibit.

The Illinois State exhibit, arranged at the University of Illinois, will be arranged with a view to demonstrating the methods of soil and plant improvement. A section of the exhibit dealing with basic problems of the rural community will be in charge of Miss Mabel Carney, director of the rural school department of the Illinois Normal University, who will deliver an address on "Making the Most of the One Teacher School."

All the State exhibits will deal with some phase of the vital problems of conservation, country life and rural schools. They will not be primarily "boosting exhibits," but will be designed to show what improvements have been effected in the States and how they can be effected in other States. Each of the State exhibits will be in charge of an able corps of demonstrators. An admission fee of 50 cents will be charged to the exposition. once inside its gates, there will be no additional charge for viewing any of the hundreds of exhibits.

A special street-car service on a fiveminute schedule will be maintained to and from the exposition grounds to the city during the two weeks from January 27 to February S. A dining-room will be under the roof of the exposition, where meals will be served to those who wish to spend the day seeing the show. With the recent large increase in its hotel facilities, Columbia will be amply able to provide homes for all those who attend the exposition. In case visitors prefer to live in a private residence while at the exposition, they will find that the homes of Columbia are open to them. A long list of hotels, boarding-houses and private residences has been made up by the exposition's bureau of information, which will have offices at the exposition grounds, the union passenger station and in the business section.

The management of the exposition hopes to attract thousands of corn growers from the Middle West to Columbia during the show. There is a limited train between Cincinnati and Columbia. At the former city convenient connection can be made with the limited for Columbia from Chicago and many points in the West and Middle West. The Southeastern Passenger Association has granted special rates to Columbia for the exposition. In addition, the tourist winter tickets are on sale by many roads in the North, and several roads in the West are co-operating with the Southeastern Passenger Association by adding its special rate from the point where it becomes in force

A. D. OLIPHANT.

## FOR EXPANDING BUSINESS.

#### Plans for Systematic Development of Charlotte.

[Special Cor. Manufacturers Record.] Charlotte, N. C., January 18.

A company to be known as the Mercantile Development Co., charter applied for, plans to build up or develop an entirely new business district here. The promoters of this undertaking are men of wealth and business standing, Messrs. E. D. Latta, Sr., E. D. Latta, Jr., W. S. Lee, Z. V. Taylor and associates. In fact, it is a coalition of the interests of Mr. Latta of Charlotte and the Messrs. Duke of New York, represented by the Southern Power Co. and the Piedmont & Northern lines. It has been recognized for a long time not only by Mr. Latta, but also by other business men of Charlotte, that, in order to take care of the constantly increasing volume of business, the section of the city now devoted to this purpose must be enlarged. Mr. Latta, with unusual foresight, about two years ago began to purchase a large amount of real estate, and it is these holdings that are to be developed in connection with those of the interests of the Messrs. Duke on South Tryon, South Church, Mint, West 1st, West 2d and West Stonewall streets. This property lies south of and is within a few blocks of the present city square at the intersection of Trade and Tryon streets, and offers a logical location for such an enterprise.

The development as outlined includes such permanent improvements as the widening of streets, extending transportation facilities and the erection of business houses of any description from the model business house to the more ambitious office building. In other words, the plans provide for the complete building of a business section that will be modern in every respect, an undertaking of unusual proportions. What all this means to the growth of the city cannot at this time be fully appreciated, for it is stated that if any person, firm or corporation desired to locate in Charlotte the Mercantile Development Co. would provide the necessary accommodations, including the placing of the interurban tracks in the rear of the stores, making it an ideal proposition from every standpoint, and will do this upon terms mutually agreeable to parties concerned.

The main development will be along West 1st street, extending from Tryon to Mint, making the other streets auxiliary feeders, and as Mr. Lata and associaes own all of the property involved, there is no limit to the work that may be done, and that they are in earnest is evidenced from the fact that dirt is to be moved within 30 days.

This, in connection with the development of the suburbs, makes Charlotte one of the most atractive cities in the South from a business, residence or investment standpoint.

As is well known, this is already a center of the cotton mill interest of the South, and is rapidly becoming the home of sales agents representing many lines of business endeavor, from the fact that the territory of which Charlotte is the central point is developing rapidly and the transportation facilities are of the best.

Mr. E. D. Latta is one of the business leaders of Charlotte, who was energetic in seeing that the city should be equipped with its excellent lighting and street railway systems, and it was also he who, about 20 years ago, began a suburban development known as Dilworth. The plans of the Mercantile Development Co. have long been uppermost in his mind.

This new business district will not in any way detract from the present business section, but will offer additional opportunities for the location of enterprises

This property lies south of and is within that might otherwise be unable to secure a few blocks of the present city square desirable locations.

The Mercantile Development Co. will have an authorized capital stock of \$500,000.

J. LOUIS SPENCER.



THE GARRETT BUILDING, BALTIMORE.

Under construction for Robert Garrett and Sons: 12 stories and basement: 55x 100 feet; fireproof; steel and reinforced concrete construction by the system of the Standard Concrete Steel Co., 415 E. 31st street, New York, and Knickerbocker Building, Baltimore; fronts of Indiana limestone and ornamental iron; alley and rear sides of hydraulic pressed brick; heating of Warren Webster & Co., Boston; two-wire conduit lighting system; vault construction of Remington & Sherman Company, 359 Broadway, New York: sidewalk lights of American Bar Lock Co., Philadelphia; overhead traction elevators of Otis Elevator Co., New York; expansion metal laths of the John A. Roebling Sons Company, Trenton, N. J. Wells Bros., 366 Fifth avenue, New York, are the contractors; structural steel furnished by Dietrich Bros., Baltimore; roof ng of felt and tile; architects, Wyatt & Nolting, Baltimore; cost \$300,000.

In the system of fireproofing the steel work of this building the usual steel columns are completely encased in concrete to prevent fire from reaching the metal and causing it to bend. Wes char who

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# Every Southerner an Immigration Agent.

By CAPT. J. F. MERRY, Manchester, Iowa.

West have noted the booster spirit that characterizes every man, woman and child who is permanently located beyond the Rockies. A few years since the writer, on an inspection trip through that territory that he might compare the West with the South, stopped for a day at Spokane, Wash., with a view to visiting some of the farms adjacent to that hustling city. of which wonderful things had been published both as to the city and the productiveness of the soil in that locality. Calling at a livery barn, we inquired as to the general character of the farming lands in that vicinity. We were amused at the prompt and vigorous response in which the speaker eloquently proclaimed that the farm lands of Washington were unquestionably the finest in the world. and he immediately proceeded to enumerate a meager variety of grains and fruits for which that country was noted. emarked that the country seemed quite hilly as we looked from the car window on approaching the city. He replied: "Certainly, but our farm lands are in the valleys!" "How far is it to some good farming section?" we asked him, and his reply was: "About five miles out." This prompted us to say: "Have a good team hitched up at once and furnish a good driver who is familiar with the country.' After an hour's drive, we came to what they called a prairie, dotted over with very modest farm homes. This the driver suggested as fine farming land, but not so good as another valley 10 miles away. Noting a gentleman plowing, we halted, and climbing the fence made our way across the field, and introducing ourself to the plowman, was not a litle surprised to have him say:

'You Captain Merry of the Illinois Central? Why, I formerly lived in Indiana, and when we decided to change our location I wrote for and received some of your printed matter concerning the South, but, having relatives at Spokane, we finally decided to come here.

"How do you like it?"

"Well, this is a great country."

"What is your land worth per acre?"

"Three hundred to five hundred dollars."

"What do you grow?"

"Wheat and fruits."

"This soil don't look very rich in humus.

"No, it is not so rich; but, you see, our climate is what places the value on our lands. If you will look about us you will see this prairie is only about three miles long and one mile wide, with mountains on four sides of us."

"Can you make a good living on so small a farm?"

"Well, not so very good, but this climate is great, and if we don't make as much money as we did in Indiana we enjoy the mountains, and Washington is certainly a great country."

We hade our Hoosier friend good-by. and driving back to the city could not help contrasting the farming conditions of that territory with those of the South. Here were miles and miles of mountainous country, not a foot of which could be cultivated, with now and then a valley in which a few farm products could be grown, while in the South, with a climate fully the equal of Washington and nearly every foot of land cultivatable, and where a great variety of products are grown nearly every month of the year, and that our friend has installed a heating lot and pasture."

Those who have traveled through the | where the transportation facilities are all that could be desired, reaching direct the best distributing markets of the world, and yet farm lands in the South of the best quality were selling at \$30 to \$50 per acre, while in Washington, with poor transportation facilities and a long distance from market, where only one crop a year can be grown, and a very limited variety, land sells at from \$300 to \$500 per acre. From Spokane we journeyed to Seattle, passing immense lumber mills which seemed to be doing a large business. On inquiry, however, we were advised by a prominent millman that they were so far from the Eastern markets that at that time there was no money to be made in milling in Washington; but, says he, "we have the greatest country on earth." On inquiring as to how many pleasant days they had the past month, he replied: "Oh, our frequent rains don't amount to anything. No one here pays any attention to rain." We again contrasted the milling business of Washington with that of the South, where there was a demand at good prices for every stick of timber and every foot of lumber that could be sawed.

From Seattle we visited San Francisco and from there made a trip to one of the largest prune orchards in California. We were driven through these immense or chards and shown through the packing house by the superintendent himself, who, like everyone we had met, was boosting for the West. As we were about to say good-by to our genial host we ventured to inquire if the net results from the orune industry were entirely satisfactory His reply was: "Now, you have touched a tender spot. For some years we did very well, but for the past two years there has been no money made growing prunes in California."

Passing on to Southern California we aw from the car window fine raisin grape vineyards, and from gentlemen on the train we were advised that the raisin industry was not always remunerative Again we contrasted the growing of prunes and raisin grapes in California with the peach and strawberry industries of the South. We are not personally acquainted with the net results from peachgrowing in Georgia, but we do know that strawberry culture in Louisiana and Florida is one year with another a profitable industry, and we are also advised that the peach growers of Georgia are satisfied with their returns. What seems strange and beyond comprehension is the fact that lands in California adapted to prunes and raisins are selling for five to ten times the price charged for peach and strawberry lands in the South. Before we are through with this article we shall give some of the reasons for such conditions. Two years ago we again visited Southern California and was entertained with friends at Ontario, one of the orange districts of the State. Our friend with whom we were stopping had only a few months before added to his possessions by purchasing another 10-acre orange grove about a mile from his home place, for which he had paid \$16,000, or \$1600 per acre. Just a few nights before our arrival Jack Frost made his appearance and practically ruined the crop. On land that cost \$1600 per acre one would naturally expect annual bumper crops, but such is not the case, and this season we are advised

process by which under every orange tree is placed a small oil stove ready to light whenever the weather man announces the coming of frost.

In Florida, where no such expenditures are necessary, splendid oranges and delicious grapefruit are grown, the equal if not superior to those found in California. and on land that can be purchased and planted and cultivated ready for bearing for one-tenth of the prices that obtain in many of the orange districts of Califor-We religiously inquired of every ranchman, farmer, merchant and me chanic as to how they liked the country, and in not a single instance from the time we crossed the Rockies, through the Puget Sound country and through Northern and Southern California, did we find a man. woman or child who did not as we thought at times go out of his or her way to boost the country. Its praises were on every lip and on all occasions. Is this true of our friends in the South? When the writer stopped off at a siding in the pine woods of a Louisiana parish some years ago and inquired as to the character of the soil. what was the reply?

"The poorest on earth, sir."

"What do you grow here?"

"Not a thing but crawfish. We send to the New Orleans French Market for our vegetables and fruits and to Mississippi for our milk,"

What encouragement for a railroad man looking for a location where he could establish a Homeseekers' Point and where he could direct Northern homeseekers who would invest their money and make permanent homes in the South.

Being somewhat familiar with the unfortunate custom of some of our Southern friends at that time (not nearly so bad now) of saying uncomplimentary things about the South, and the crawfish story having no terrors for us, we began to advertise for settlers. Today that siding in the pine forests has grown into an enter prising and beautiful city of 4000 population, and the last season over 10,000 acres of those despised lands were cultivated in strawberries, the fruit from which was shipped to Northern markets with gross returns of about \$3,000,000. Do the citiens of that parish now send to the French Market for their vegetables? Hardly. Hundreds of carloads of the finest vegetables grown are now annually shipped from that parish. Do the good people of that section now send to Miss issippi for their milk? This question would be fully answered if the readers of this article could stand at the milk sheds any evening of the year and see the thousands of gallons of milk and pure cream being loaded for New Orleans. The gen tleman who spoke so disparagingly of the ountry needs a few lessons from our California and Washington friends, who never see anything but good in their section of the country. A few years since we called at a small Southern town with a view to looking into the agricultural onditions of that particular locality. Secing a gentleman on the street whom we thought might bear the name of planter. we made bold to engage him in conversation about as follows:

"You reside here?"

"Yes, sir; I own a place about three miles east of here."

"What is the character of your land?" "Poor, sir: mighty poor."

"You run the place yourself?"

"I manage the place, sir; I have five families on the plantation."

"How many acres in your place?"

"One hundred twenty, sir."

"How much of it under the plow?" "Eighty acres, sir, and 40 acres in wood

"How many mules on the place?

"I reckon about a dozen, sir,

At this point I suggested we take a eat in front of a store and, turning to

"Lest you think I am prying into your business, let me introduce myself," which I did by handing him one of my business cards. Grasping my hand, he said:

"Are you Captain Merry of the Illinois Central? Why, one of your men from Iowa bought a farm adjoining mine, and he is doing wonders on the worst worn out plantation in the State."

"All right, I want to hear more about him later, but I want to talk a little more about your place. You say the soil

"Yes, sir; mighty poor,"

"And yet with only 80 acres under the plow the place sustains six familiesyour own and the five negro families-and about a dozen mules. Now, in Iowa or Ilinois only one family would think living on a farm of 120 acres, and only one man with three horses would be nec essary to work 80 acres. Indeed many of our 80-acre farmers rent an additional 20 or 40 acres, and yet these farmers on the rich black prairie lands of Illinois and Iowa make little more than a comfortable living, and you tell me that 80 acres of your land supports six families and a dozen mules, and that the land is

Our new friend, looking us squarely in the face, said :

"Captain Merry, that is a just rebuke, I never will again say my land is poor.'

He then turned the conversation to his new neighbor from Iowa. "Why, sir, do you know the first thing he did was to get rid of every family on the place, tore down the cabins and made them into hog houses and sheds. He hired the best nigger in the neighborhood, and pays him \$15 per month, and they are building as good a house as there is in this town."

We had accomplished our purpose. At least one man had been converted to the theory of speaking for rather than against his lands. It is were possible to instill into the minds and hearts of our Southern people a spirit akin to that found everywhere west of the Rocky Mountains, we would within two years create such a sentiment throughout the North in favor of the South as would turn the attention of investors and homeseekers in that direc-Letter-heads and envelopes from California call attention to some of the wonderful things in that State. How would it do for our Southern friends in writing to their friends in the East. West and Middle West to make mention of their splendid climate, beautiful flowers, delicious fruits and the cheapness of their lands? The writer believes in the South. Eventually it will be fully developed, and farm lands will sell at four times their present value, but to us it seems a patriotic duty that we at once enter more enthusiastically into the work of advertising in a strong and dignified way the resources and possibilities of the South. and to this end I wish that every Southerner might at once become a persistent immigration agent for the South. Only today we clipped from the Des Moines (Iowa) Daily Capital the following:

"'Who would exchange this fine exhilarating Iowa atmosphere for the enervating, perfume-laden airs of California?'-Charles City (Iosca) Intelligencer.

"'Not the Californians. If they owned heaven and California, they would rent heaven and live in California.'-Chicago Inter-Ocean.

"There may be something in that. With an earthquake to tumble one out of bed in the morning, an earthquake to settle one's dinner at noon and an earthquake to rock one to sleep at night, it is possible that life might become such a grand. sweet, merry-go-round as to dull the sense of appreciation for any other land or

clime. These little pleasantries indulged in by Iowa and Illinois editors will not disturb Californians in the least. On the contrary, they will rejoice to know their methods of advertising have been so successful as to interest newspapers east of the Rocky Mountains. It is a well-known fact that thousands of excellent families from the East and Middle West are im migrating to California and paying handsomely for a patch of ground in the valley or on the hillside where they may es tablish a home. Why is this? Not be cause the soil is especially fertile; not because the markets for their fruits and garden truck are near at hand; not be cause the climatic conditions are so su perior. What, then, is it that makes California so atractive? One of the great attractions, and one that has induced many a family to locate there, is the joy of being located among live people. It is an old saying that "only live fish swim Californians are alive, and upstream. it is really a joy to mingle with them. What would be the result if our Southern friends would adopt some of these West ern methods that have been so succe ful? Every one of the 16 Southern States have agricultural, commercial and industrial resources and possibilities not equaled by any State in the far West. They have a soil that will produce nearly every staple farm product. They within easy reach of Chicago and New York, the two greatest distributing points for all farm products. They have a climate in some respects superior to that of any other State in the nation, and what should and would attract homeseekers and investors, if properly understood by people looking for new homes, is the astounding fact that the South has over 300,000. 000 acres of uncleared and unreclaimed fertile lands that can be bought at price ranging from \$10 to \$50 per acre-lands that will grow a greater variety of products and furnish more satisfactory net results than the thousand-do!lar-per-acre lands of California, Oregon and Wash ington. May not we who love the South and are interested in its development study Southern conditions until we are bubbling over with its marvelous opportunities, and, laying aside our modesty. 'proclaim it from the housetops" and elsewhere that the Southern States are but half developed and that a hearty welcome awaits all good people-even Californians-who will come and locate in them. Nature has done everything for the South, and engineering skill and millions of Uncle Sam's money have con structed a canal connecting the two oceans that will soon be open to com merce, affording quick passage of steamships bearing Southern products from every Atlantic and Gulf port of the South to every market of the Orient. Is it not time for us all to assume the role of immigration agent for the South and speak upon all occasions for and advertise in every conceivable way the innumerable possibilities of the 16 Southern States?

## Tennessee Hoop Co.

The Tennessee Hoop Co., Memphis. will increase its capital stock from \$25, 000 to \$100,000. It has been manufacturing elm coil hoops, and has decided on the capital increase in order to build a plant for manufacturing heading, hoops and staves. This new plant will have a daily capacity of 45,000 hoops, 40,000 staves and 3000 sets of heading.

#### ENTERPRISE AT LIVE OAK.

#### Industrial and Municipal Activities in the Florida City.

[Special Cor. Manufacturers Record.] Live Oak, Fla., January 18.

Live Oak, situated in the north-central part of the State, is no doubt destined to develop rapidly in the next few years. Live Oak, with its neat and very substantial homes, is situated on four railway lines, Live Oak, Perry & Gulf Railway, the Atlantic Coast Line, the Seaboard Air Line and the Florida Railway. A handsome city hall has been erected at a cost of \$15,000, which is acknowledged to be one of the finest buildings of its kind in this section of the State. Churches of all leading denominations are established The city has an ice plant, electriclight plant, cold-storage plant, brick works, cotton gins, sawmill, sash and door factory, planing mill, machine shops, railway repair shops, three banks and two olesale grocery houses.

Being the county-seat of Suwanne ounty, the city naturally draws the citizens from all outlying districts and thus becomes the main point of business for all farmers and settlers for miles around. The business of the city has reached out to all parts of the State, making Live Oak one of the most important commercial points in Florida.

They are now at work putting in a new ewerage system at a cost of \$35,000, and on February 4 will open bids for vitrified brick paying in the business section of the city, which will no doubt cost at least 875,000.

The Chamber of Commerce is about toorganize an oil mill and fertilizer plant, representing an investment of \$75,000. The power plant and ice factory have just been acquired by J. G. White & Co. of New York, who will take possession March 1. J. G. White & Co. intend de reloping the property and will make many improvements and additions in order to enable them to furnish electric power as well as power for lighting purposes. This will be of great advantage to Live Oak, for the manufacturers who are already located here and also for those who will locate here

Mr. L. S. Haward is preparing to start an up-to-date dairy farm nearby. Mr. George H. Davis and associates are planning to build a syrup refinery. sugar-cane produced in this county is famous for its quality. A committee meeting is to be held next week to discuss ways and means for the erection of a \$50,000 graded school building. City Council at its last meeting endorsed the project to put in a white way in the business section of the city. For this spirit of progress, as well as for the prominence of the future, the willingness of the live, wide-awake Chamber of Commerce to give financial assistance to any enterprise or business which can show I. S. FIELD. merit is responsible.

## The Birmingham Iron Market.

[Special Cor. Manufacturers Record.] Birmingham, Ala., January 20.

The feature of the local pig-iron market is the call for delivery against contracts previously entered and the volume of inquiry being received for advanced require ments. Actual sales made in the past week show a substantial increase over the sales of the week previous, but the aggregate tonnage involved was short of expectations, and a very wide territory was covered by the trading. The most significant of any recent transactions in volved 30,000 tons of basic iron. This sale was made some weeks ago, but is just confirmed with the change of opera-

the past week consist of a lot of 800 tons of special No. 2 soft iron at \$15 per ton. 300 tons of high silicon iron at \$15.50 per ton, an aggregate of 600 tons of No. 2 foundry for advanced delivery at \$14.50 per ton and 500 to 750 tons of No. 2 foundry for spot shipment at \$14 per ton. The transactions mentioned covered require ments in strictly Southern territory, and the prices paid are probably higher than are obtainable for the same grades in the North and East. The price consideration for the basic tonnage sold is not given out, but is no doubt in line with the market price for No. 2 foundry, as the furnace operations would not have been changed otherwise, owing to the foundry tonnage on previous sales that remains undelivered. Reports from the trade generally indicate a gradual increase in the rate of consumption over the rate just prior to the beginning of the year, and those parties most conversant with the situation are of the opinion that a significant portion of the increase is to be provided for through new engagements Such a theory can hardly be substantiated by the inquiry nor by the tonnage remaining undelivered on order-books, and in the case of the former the consuming interests are quite disposed to "feel" the mar ket, while as to the undelivered tonnage local conditions have been such for som months that it is hard to say just where the delay resulted. It is understood that all of the present active capacity is provided with orders more or less to take care of the output during the first quarter, and in those cases where additions to the rate of production is proposed sales have been made to cover the make in the entire first half. These conditions account largely or the variance in prices being asked. although all order-books are considered open for additional tonnage. With the rate of shipment gradually increasing and foundry operations being extended, the demand is expected to take a more definite form within a very short time; but until that time the market can only be considered firm, with prices asked subject to revision. For prompt shipment and delivery in the first half, the schedule below is quoted per gross ton f. o. b. cars at Birmingham furnaces, viz.: No. 1 foun dry, \$14.50 to \$15; No. 2 foundry, \$14 to \$14.50: No. 3 foundry, \$13.75 to \$14.25: No. 4 foundry, \$13.50 to \$14; gray forge, \$13.25 to \$13.75; mottled, \$13.25 to \$13.75; standard basic, \$14 to \$14.50.

At local finishing mills more concern is seing given the delivery of tonnage already sold than to new business, and as a result the trading is light comparatively. The Bessemer (Ala.) mill is now being of ated on double turn; the Gadsden (Ala.) mill is being operated to capacity, and practically all departments are in operation at the Ensley mill. This last is neaking delivery against 15,000 tons of billets recently placed for shipment into Eastern territory. So far as is known. the operations at Gadsden and Alabama City will not be affected by the sale of the Southern Iron & Steel Co. properties on the 31st inst.

Dealers in old material report a fair volume of business in the past week, with prices maintained in line with quotations. The accumulation on local yards does not increase, due to the inability to s the tonnage desired at the figures offered, and for the present a conservative course is being followed in commitments. In the reports for the past week, relaying rails are mentioned as being most active, with a very attractive tonnage represented by inquiries pending. Asking prices, which tions from foundry to basic at a local are subject to revision with any change Association of America.

furnace plant. The sales reported for in local conditions, are about as follows per gross ton f. o. b. cars here, viz.;

Old iron rails (light), \$15.50 to \$16. Old steel axles (light), \$15,50 to \$16.

Old iron rails, \$15.50 to \$16.

No. 1 railroad wrought, \$13.50 to \$14. No. 2 railroad wrought, \$11 to \$11.50.

No. 1 country, \$9.50 to \$10.

No. 2 country, \$8.50 to \$9,

No. 1 machinery, \$11.50 to \$12.

No. 1 steel, \$11.50 to \$12.

Tram car wheels, \$11 to \$11.50.

Standard car wheels, \$12.50 to \$13.

Cast iron pipe manufacturers are now giving more attention to stock accumulations to take up specifications for shipment in the early spring, but have not received any large orders since last report. The schedule of prices is being maintained for such business as is being placed. which consists of small orders for maintenance and repairs. Class "B." or water pipe, is quotable as follows per net ton f. o. b. cars here, viz.: 4-inch, \$24.50; 6inch and up, \$22.50, with \$1 per ton extra for gas pipe.

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The steam coal market is practically the same as last reported, with domestic grades more easily obtained. The scale of prices for this last has not been fixed. but the chances are that an advance for all summer deliveries will be asked, owing to the small stock accumulation now on dealers' yards. All grades of coke are in strong demand, with the available supply being applied directly against contracts. In this connection the by-product plant of the Tennessee Coal, Iron & Railroad Co. is now producing some 3000 tons of coke daily. This after lighting the fourth battery of ovens, which has just been completed.

## For Big Coke Plant.

It is reported that James Campbell. president of the North American Company, New York, and associates are organizing a company capitalized at from \$3,500,000 to \$5,000,000 to build coke plants in various cities, including St. Louis. Referring to this proposition, N. De Taube, Hotel Jefferson, St. Louis, wires the MANUFACTURERS RECORD as follows:

"Proposed capacity about 1000 tons coal per day, to be increased at later date; initial capital expenditures estimated at \$2.250,000. Financial interests back of proposition include some of the most prominent Eastern capitalists. Refer to White, Weld & Co., New York, for particulars."

## Oil Mill Exhibit.

The Oil Mill Superintendents' Auxiliary, Atlanta, Ga., will hold its next convention in Atlanta, June 4-6. The plans include a most comprehensive exhibit of oil-mill machinery and appliances, and the main room of the auditorium has been reserved for the exhibits. Both operating and still exhibits will be shown, and an attendance of 250 oil-mill superintendents is expected. Mr. J. C. Holmes, president of the Interstate Oil Mill Superintendents' Association, Shellman, Ga., has charge of the superintendents' meeting. and Mr. F. C. Myers, Atlanta, secretary of the Oil Mill Superintendents' Auxiliary, of exhibit space and the exhibitors' association.

## National Clay Show.

In conjunction with the second International Clay Products Exposition at Chicago, February 28-March 2, will be held the annual conventions of the National Brick Manufacturers' Association. the National Paving Brick Manufacturers' Association and the Building Brick

# \$1,500,000 Bonds for Municipal Docks.

SUCCESSFUL CULMINATION OF A REMARKABLE CAM-PAIGN AT JACKSONVILLE.

[Special Dispatch to Manufacturers Record.]

Jacksonville, Fla., January 21. At a special election held here today the voters of Jacksonville authorized the issuance of a million and a half dollars of bonds for the purpose of securing money with which to establish municipal docks on the St. John's River. This election was the successful culmination of one of the most remarkable campaigns ever waged. At Jacksonville the docks owned and controlled by railroads and other private interests. To get authority for the city to issue bonds to be expended in securing municipal docks required an amendment to the city charter, and this could only be made by the Legislature, whose nearest regular session will be next April. The members of the Board of Trade thought they could not wait so long, and so, after feeling out the members of the Legislature and finding a majority in favor of amending the char ter as they desired, they proposed to Gov ernor Gilchrist that if he would call a special session for the purpose of amending the charter the Board of Trade would pay all the expenses incurred thereby The session was so called in October at Jacksonville, the desired amendment was made, and the Jacksonville Board of Trade footed the entire bill.

Then came the fight to secure the vote at the polls necessary to authorize the issuance of the bonds. The trouble was not that there was likely to be a majority cast against it, but that the 40 per cent. of registered voters necessary to make the election valid could not be gotten to the polls. They had to fight the indifference of the voters upon a matter of vital importance to every one of them. By dint of hard campaign work, mass-meetings, brase band parades and free carriages and automobiles to carry voters to the polls some thing more than 40 per cent. of the registered voters were gotten to the polls and the bond issue was authorized. It was a hard-fought campaign, however, although the vote against the bonds was extremely small.

The enterprising business men of Jacksonville are justly proud of their victory over the inertia of the public, and there is a good deal of jollifying throughout

A number of sites for the docks have been suggested and discussed, but no one can say for a surety where they will be GEO, BYRNE. located.

## TIMBER AND MINERALS:

Much Wealth Still to Be Developed in the Cumberland Plateau.

[Special Cor. Manufacturers Record.]

Nashville, Tenn., January 17. Among all the wonderful possibilities for agricultural and industrial development offered in nearly every section of the South, there is no section that has, perhaps, a greater diversity of offerings than that considerable portion of Tennessee traversed by the Tennessee Central Railroad. Certainly no section can offer a more multifarious selection to attract the investor, the manufacturer, the developer, the agriculturist.

The Tennessee Central has as its territory that very potential area comprised in the distance between Hopkinsville, Ky .. and Harriman, Tenn., with Nashville as the headquarters of the road. The line traverses many counties, and in their capital shall be attracted to it, take hold W. Mason and associates of Tulsa."

scope there lies a field almost fallow, so far as development is concerned, when considered in relation to other sections of this country. Considering the mineral and agricultural wealth that is offered for exploitation, these counties alone contain resources hitherto neglected, almost untouched. The Cumberland Plateau has frequently been called a "wonderland." and one can readily understand why it has thus been characterized when one lets his mind deal with the opportunities contained therein.

The counties of Cumberland, Fentress, Roane, Overton and Putnam are rich in coal fields, which have been subjected to minute and exhaustive study, and this has been further proven by the opening of several productive mines. Land can still be bought in some portions of those counties at \$10 an acre, and all of it is said to contain more or less good coal.

In Roane county there lie some splendid beds of iron. The plant of the Roane Iron Co. on the Tennessee Central is offered as evidence as one of the largest plants in iron production in existence, in this section at least.

In Putnam and Jackson counties there are perhaps 100 square miles underlaid with good phosphate. The presence of phosphate in this region was not suspected previous to 1906. Careful explorations and measurements seem to have demonstrated beyond any reasonable doubt that it does exist there in great quantity. It is said to compare favorably with the best grades of Spanish, French and the other Tennessee phosphates. Much of it can still be bought at reasonable figures.

The highest grade of fluorspar is found in Putnam and Smith counties. It is pure white or clear pale blue in color, and the percentage of silica is not more than 1 per cent. It lends itself admirably to the manufacture of opalescent glass, in the making of enamels, agateware and in the production of hydrofluoric acid.

There is a claim made that an oil field exists in Putnam, Overton and Fentress counties, traversed by the Tennessee Central. It seems to lie directly in the geo logical belt that extends from Pennsylvania to Texas. The Bob's Bar well on Obed River has yielded as high as 250 barrels of oil a day.

Beautiful and highly durable building stones exist in great quantities in the counties of Putnam. Overton, Cumberland, Fentress and Roane. That which is susceptible of the greatest use and has the highest value lies in the upper part of the Lookout sandstone region. There are quarries between Cookeville and Monterey, on the Tennessee Central, furnishing beautiful buff and pink sandstone. It is soft when first quarried, but hardens rapidly after weather exposure.

Near Crab Orchard, in Cumberland county, lie enormous deposits of what is said by experts to be excellent marble. It is newly discovered, and there is almost none of it yet developed. It has been practically tested.

A quarry of lithographic stone is in operation in Putuam county, near Allgood. This also has been thoroughly tested and pronounced perfect by lithographers.

Immense strata of cement rock lie along the line. This vast deposit is practically untouched, awaiting the time when

and develop it. The rock is particularly available at Wilder, on the Crawford branch

Deposits of clay, immense in extent, lie almost untouched along the entire line of the Tennessee Central. Near Monterey potteries are in operation and their product is being shipped and sold to many points. The management of the road offers assistance and encouragement in establishing brick plants along its line.

The available horse-power from water that can be harnessed along the line of the Tennessee Central is almost incalculable. It is calculated that the upper Cumberland and the Caney Fork alone could develop sufficient horse-power to operate all the electric plants in Tennes-These powers should command the attention of investors.

The great timber belts of Tennessee are traversed by the line. Many plants are in operation along this road, but the supply is by no means exhausted. There are yet standing vast tracts of virgin forest containing an average of 2500 feet of hardwood timber to the acre, such as hickory, oak, poplar, lynn, ash, cedar and chestnut. There are more than 100 distinct species of timber in this regon. is a well-known fact that here the growths reach the greatest perfection by reason of soil and climatic conditions. In the one item of timber wealth alone there are along this line of road opportunities for industrial development that may not be exhausted in many decades.

The opportunities afforded by the soil of this region for the farmer are even greater, perhaps, than those offered the industrial developer. Abundant and con-vincing evidence of this statement is shown on every hand to one who travels over the line. The soil of the Cumberland Plateau, a light sandy loam, has long been known as particularly well adapted to raising all kinds of fruits indigenous to the north temperate zone. The strawberry, particularly, reaches perfection in

In Rhen county, where many farmers are devoting their energies largely to the culture of the strawberry, many comfortable fortunes have been accumulated therefrom. Rhea county adjoins the counties traversed by the Tennessee Central. The lands are yet reasonable in

In adition to these numerous advantages, the Cumberland Plateau can and does offer unexcelled water and the purest of air, salubrious and bracing. Malaria is unknown, and the natives of the plateau are famous for their longevity.

C. F. DRAKE.

## Building in Texas Cities.

Statistics compiled by the Texas Com mercial Secretaries and Business Men's Association show that building permits were issued in nine leading Texas cities during 1912 for construction estimated o cost \$22,294,570. These cities include Houston, with 4.979,309; Dallas, \$4,966, 898; Fort Worth, \$3,299,333; San Antonio, \$2,278,760; El Paso, \$2,227,045; Galveston, \$1,879,166; Waco, \$1,259,940; Austin, \$525,213; Beaumont, \$378,906.

## A \$500,000 Hydro-Electric Plant.

Referring to plans in which he and associates are interested, for the construction of a hydro-electric plant on the Arkansas River about 60 miles from Tulsa. Okla., C. P. Chenault of Tulsa wires the MANUFACTURERS RECORD as follows

"Propose 42,000 horse-power; divert water across neck of land instead of building dam: have fall 105 feet: \$300,000 cost of construction; \$200,000 for transmis sion lines; capitalists, J. O. Campbell, L.

## HOUSTON'S SHIP CHANNEL

To Be Completed in Time to Benefit by the Panama Canal.

[Special Cor. Manufacturers Record.] Chamber of Commerce

Houston, Tex., January 14. Five dredges are now at work improv-

ing the Houston Ship Channel, a natural arm of the sea, extending from Houston 48 miles south to the Gulf of Mexico. The work is under direction of United States nment engineers, an appropriation of \$2,500,000 being available for the work. Under the terms of the Government contract the contractors are to secure a minimum depth of 25 feet throughout and a width of 150 feet at the narrowest point, these figures to prevail at the time the job is accepted by the Government. In consequence a minimum depth of 27 feet is being secured, so the work will be well within the contract when completed. During December the five dredges took out 512,404 cubic yards of dirt at a cost of \$82,740, representing the completion of 8600 feet of the channel. Those in charge estimate the work will be completed in June, 1914. The improvement work is being done in three divisions, and all the work so far completed has been done in divisions 2 and 3, which are between the turning basin at Houston and Morgan Point, where the channel pens into upper Galveston Bay. When the ship channel is completed any vessels touching the Gulf or Southern senboard may come direct to Houston.

Completed in June, 1914, the Houston Ship Channel will be in readiness to handle the immense traffic to be quickened by the opening of the Panama Canal. In consequence Houston will benefit immeasurably, because of its inland position. It brings the sea to the heart of a rich truck growing and fruit section; to the base of the hardwoods and pine : to the heart of an oil-producing section: to the heart of a rice-growing section; to the greatest inland port cotton market in the world, and direct to 17 railroads radiating from all parts of the East, North and West,

The city is making extensive prepara tions for the opening of the channel. Deep excavations have been made at the turn ing basin, where wharves and docks will be constructed. Wharf and dock privileges will be free, guaranteed by the city. as is provided for in contract with the Federal Government. This guarantee is perpetual, and shipping over the Houston wharves forever will be free from the tax of wharf tariffs.

The last report of the Houston customs office showed at the end of the fiscal year June 30, 1912, there were 176 vessels enrolled in the port of Houston. Forty-two boats fly the pennant of the Houston Launch Club. There are about 20 pleasure cruisers on the channel and 30 vachts. Two of the fastest speed boats in Southern waters—the Joe Bailey and the Gee Whiz-are owned by Houstonians.

The Houston Ship Channel has engaged the attention of men of affairs ever since General Sam Houston scored so heavily against the Mexicans under Santa Ana at San Jacinto in 1836. In 1842 the Congress of the Republic of Texas authorized the municipal authorities of the city of Houston to better the condition of the ship channel (Buffalo Bayou then) as a navigable stream by removing the debris in it. Various companies were granted navigation charters, permitting them to operate vessels over the waters of the stream, and in these charters they were authorized to pull up snags, erect land marks and landings, etc. Even in those old days, when Houston was a mere village, the stream that today is known as the ship channel played its part in the

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affairs of men, and its worth was reckoned by those in authority.

The first appropriation for the improvement of the stream was made by the State Legislature in 1857, when \$4000 was set aside for the purpose noted. The next year, 1858, it is recorded that the sum of \$300,000 was set aside by the Legislature for the improvement of the navigable streams, bayous and bays, but if the Houston Ship Channel received any benefit from this appropriation it does not appear in the records available.

In 1867 Houston's City Council had some surveys of the stream made. The Buffalo Bayou Ship Channel Co. was organized to promote the development of the channel, an engineer was employed and improvements were begun in a systematic manner.

Soon after the war between the States the Morgan Steamship Co., a pioneer Gulf coasting steamer line, entered the Texas field and established terminals at Clinton, six miles telow Houston. Morgan made the cut at Morgan's Point and for several years operated his vessels between Texas and New Orleans. Clinton was his Texas terminus, and there his freight was transferred to the T. T. Short Line for Houston.

In 1892 the Government purchased the Morgan cut, paying for it \$92,316.85. Then began the planning for a greater channel, which is now being realized. Up to this time there had been expended in the development of this project a total of \$1,010.465.80. In 1899 the existing project for the development of the ship channel was drawn up by United States engineers. This plan, which was modified in some details in 1905, is the scheme of development under which the ship channel work is now being carried on.

Up to June 30, 1909, the total amount that had been expended by the National Government on the Houston Ship Channel was \$2,082,668.63. In the accompanying report the engineers said the project was about 50 per cent. completed, and an estimate was given that \$2,800,000 was needed to complete the work.

When the latter estimate was made the business men of Houston bestirred themselves to secure sufficient Government appropriations to complete the ship channel and give Houston deep water to the Gulf. The Government effered an appropriation of \$1.250,000 provided this section would place at the disposal of the engineers an equal sum. January 10, 1910, bonds for this amount were voted by the people of Harris county and the bonds immediately absorbed by the banks and trust companies of Houston and the money made immediately available.

JEROME H. FARBER, Director of Publicity.

## LAKELAND IMPROVEMENTS.

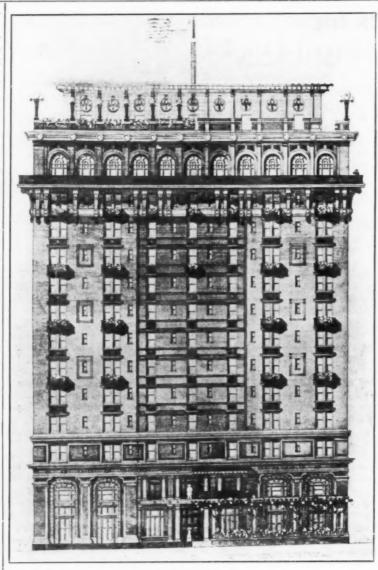
Nearly \$250,000 to Be Spent of Once in the Little Florida City.

[Special Cor. Manufacturers Record.]

Lakeland, Fla., January 16.

Public improvement work to be done in Lakeland will cost about \$250,000. There has been a bond issue of \$250,000, and the additional amount to be paid by property-owners for their portion of the street paving will amount to something like \$90,000 or \$100,000. The different funds are divided as follows: \$75,000 for sanitary sewers, \$60,000 for the city's portion of the street paving and \$15,000 for a city hall. The contracts have been let as follows:

Sanitary sewers, J. W. Gurley & Co., Mobile, Ala.; street paving and storm sewers, Southern Asphalt & Construction Co., Birmingham, Ala.; city hall, to Bishop & Grear, Valdosta, Ga.



THE RODEN HOTEL, BIRMINGHAM.

To be erected for Roden Hotel Co.; 12 stories; 150x140 feet; fireproof steel construction; cost, without mechanical equipment, \$650,000; architect, William C. Weston, Birmingham; contractor for steel, American Bridge Co., New York; contractor for erection of steel frame, John Mullin Company, Pittsburg; general contractor, F. W. Mark Construction Co., Birmingham.

Some of the contractors have their material on the road, and others expect same to reach here in a few days. The sanitary sewer work will commence first, and will be followed by the street pavers in a few weeks. The best quality of pressed vitrified brick will be used on the principal business streets, while in the residence section the people and the board of bond trustees have the privilege of using either brick or asphalt macadam. The present material on the business streets, in the shape of a soft phosphate rock, will be taken up and removed to other streets that at the present time have no paving. In the grand total there will probably be about \$0,000 square yards of good paving put down in this city of about 6000 or 7000 population. The sanitary sewers will consist of about 14 or 15 miles of terra-cotta pipe of good substantial weight, running from 8 to 18 inches in diameter. The bonds for this purpose have been sold, and a portion of the funds is now in the First National Bank of this city, the balance of the issue of bonds to be delivered from 60 to 120 days from date of first delivery, which was December 30.

C. D. CLOUGH.

## Looking for Industries.

The Board of Trade, Damascus, Va., January 14. Editor Manufacturers Record:

We have just organized a Board of Trade in our little town of about 1500 inhabitants. the Federal Government has constructed the Muscle Shoals Canal. Twenty miles south of Florence are found the largest

We have three short lines of railroad running into the town, one of them making connection with the Norfolk & Western road at Abingdon, 15 miles away; an extract plant, a band mill, a box factory, an up-to-date veneering plant, an electric-light plant and a flour mill.

But, with an abundant water-power from two small streams, and an ideal location for other factories, we want several other plants. We should like to have a furniture factory and any other woodworking factories; a cotton mill, a brick works and an ice factory.

This is a splendid location for a good first-class 30 or 40-room hotel, and our people are ready to take stock in one.

J. H. Montgomery, Secretary.

## Want an Interurban Service.

Editor Manufacturers Record:

Just north of the Tennessee River and adjoining Lauderdale county. Alabama, is Wayne county. Tennessee, the second largest county in the State. This county has for its capital the little mountain city of Waynesboro, and Florence is the county seat of Lauderdale county, Alabama. The county of Lauderdale is one of the banner counties of the great State of Alabama. Within the borders of this county, on the majestic Tennessee River, is one of the greatest water-powers of the world, known as the Muscle Shoals Falls, around which the Federal Government has constructed the Muscle Shoals Canal. Twenty miles south of Florence are found the largest

fields of the Russellville iron ores, and only a few miles south of these iron-ore beds we have the immense coal fields of Alabama, which extend well into the famous Birmingham district Now, on the north of Florence and adjoining Lauderdale county, Alabama, is Wayne county. Tennessee, with its large forests of valuable virgin timber, its large deposits of iron ore, its beautiful crystal springs and streams, fertile valley farms, lime stone deposits and many other valuable and undeveloped assets. On the east and north sides of Wayne county are the vast iron-ore deposits of the West Point district and the phosphate fields of Tennes see. In this territory we have the cotton fields of North Alabama and Middle Tennessee, being one of the valuable and lasting assets of this region. Now comes the main point of this article, the above facts being stated as preliminary to direct attention to the urgent demand for and the fine opportunity for establishing a motor or electric car interurban railway service between Florence and Waynesboro and Clifton, Tenn., a distance of about 60 miles. Wayne county having no railroad facilities at all.

Dr. Charles M. Watson, Florence, Ala.

## Texas City Commece.

Board of Trade,

Texas City, Tex., January 18.

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Foreign exports through Texas City in 1912 reached in volume 244,846 tons. valued at \$44,685,601, while imports were 2743 tons, valued at \$527,588. Cotton formed the principal commodity exported. A total of 722,086 square and 6050 round bales, weighing 192,634 tons and valued at \$43,293,982, was sent to foreign countries. Wheat shipments reached 628,337 bushels, which, with exports of other grain and flour, brought the total movement of grain and products to 20,289 tons, valued at \$720,571. The movement of lumber and logs was 29,431 tons, valued at \$365,471; manufactures of iron and steel 1033 tons, valued at \$143,694; packing-house products 228 tons, valued at \$45,579; cottonseed and by-products 113 tons, valued at \$5000, and miscellaneous 529 tons, valued at \$72,950. In the foreign import trade the principal items were coffee, reaching 825 tons, valued at \$270,-749; palm-leaf hats, of which there were 324 tons, valued at \$106,070, and sisal and istle, of which there were 1319 tons. valued at \$120,133. Rice, sugar and glycerine were among other commodities imported.

The growth of Texas City during the past eight years is shown by the fact that in 1904 only 12 vessels, carrying 8712 tons of cargo, arrived and departed, while in 1912 a total of 396 vessels, foreign and domestic, arrived and departed, carrying 463,191 tons of cargo. E. O. TALMAGE.

## To Assure Railroad Terminals.

[Special Cor. Manufacturers Record.]

Pascagoula, Miss., January 14. The Business League of Pascagoula, upon motion of Mr. F. H. Lewis, adopted at its last meeting a resolution pledging the League to give to Walter G. Seaver of Chester, Pa., promoter of the Mississippi Northwestern Railroad, a terminal on the Pascagoula River south of the Louisville & Nashville Railroad bridge, of 3500 feet in width and 1500 feet long. as selected by him, and a right of way through the city to said terminals, all of which to be delivered to him without cost by deeds when the Mississippi Northwestern Railroad is constructed from the terminals on the Pascagoula River through Jackson county to the western boundary line of the country. Chas. E. Chidsey.

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### INDUSTRIES AT TULLAHOMA.

Diversity and Activity in the Little Tennessee City.

[Special Cor. Manufacturers Record.] Tullahoma, Tenn., January 15.

Nestling in its groves of oak and elm. e would never imagine, upon leaving the train at Tullahoma, that this is an industrial community, the importance of which is seen when stock is taken of the number of plants that are operating here, and that have constituted for several years | ing 60 to 70 men, and Campbell & Dan, a

sewer system, work upon which is now being forwarded; in fact, is simpst completed. There is also a school building costing \$75,000, with a well equipped gymnasium and grounds. The town has no bonded indebtedness aside from the issue just made. It also has municipally-owned electric-light and water-works plants.

Among the private industrial plants may be mentioned that of the M. R. Campbell spoke and hub factory, employ-

product all over the Southern States. Near Tullahoma there is a very fine private school, with more than \$50,000 invested in buildings and grounds. This institution has been in operation seven

The Highlands Hotel Co. has recently been organized here. Has bought 112 acres on Mineral Springs and the Golf Course road and 240 acres at the noted "Hurricane Springs." Here it is proposed to establish a resort hotel, hoping thereby to belp Tullahoma industrially, it being argued that establishments of similar character in Florida and North Carolina have lead directly in many instances to the industrial expansion now being done in those States.

At Ovoca is located the castle of the Knights of Pythias of Tennessee. The Grand Lodge of the State meets here. and many visitors reach the spot through the summer, there being good habitable cottages built around the beauty spot. The Falls of Ovoca." It is claimed

a nursery that is flourishing, selling its the splendid health record of Tullahoma was the direct cause of this important investment by the Order. There are 17 nice cottages, an administration building. a good auditorium, dining hall, walks, drives, bridges already built and more being added. The castle is built upon the banks of Lake Calanthe. The place is said to bid fair to become a national Pythian resort.

> The tobacco-growing industry is but six years old in this county, but there was a total area of 2000 acres planted last year, and the yield was 2,009,000 pounds. Good success is attending the cultivation of the plant. The Coffee county tobacco has received numerous medals and special mention. It is a growing and profitable industry.

As is the case with so many little cities in the South that have been sleeping on their part of the billions of vadues underneath their feet, Tullahoma is waking up, and it will soon be rated as being in the "very active" column. C. F. Drake.



TOBACCO FIELD NEAR PULLAHOMA.

past the most important part of Tulla- plant manufacturing bent work, every homa's business activities.

Tullahoma, in Coffee county, is 69 miles from Nashville on the Nasaville, Chattanooga & St. Louis Railway. has a population of about 5000, according to local claims, but in the course of several months of the year this number is considerably increased by the influx of visitors, as the place is noted as a health resort, with altitude very nearly 1100 feet above sea level. It is the terminus of the Bon Air branch, a road of 80 miles, and through this branch is the outlet for an out an average of 800 pair per day. The immense tract of timbered land and coal company is capitalized at \$50,000, and

thing that goes into the construction of all kinds of vehicles, with 75 to 100 employes,

The Anderson Manufacturing Co. employs 25 to 30 men, and makes a line of furnishing specialties, such as showcases store fixtures, etc., and has a very profitable line of custom with foreign countries. This is a very enterprising con-

The Tennessee Overall Co., of which B. H. Wilkins is president and manager, employs about 100 persons, and they turn



RECENTLY COMPLETED SURGICAL HOSPITAL AT ASHEVILLE

## BUILDING AT ASHEVILLE.

Completion of a Modern Surgical Hospital.

Board of Trade,

Asheville, N. C., January 17.

Editor Manufacturers Record:

Announcement has just been made by Mr. F. L. Seely, who has charge of the onstruction of the Grove Park Inn on Sunset Mountain here, that he will build a residence on the point of Overlook Mountain, at a point that gives a sweening view of Chunns Cove to the east, Asheville and the French Broad River Valley to the west, with a full look to the several ranges of mountains in the west, including a very fine view of Mt. Pisgah and the Rat, 5749 feet above sea level. In fact, several hundred sacks of rement and a great pile of stone are already on the ground. It will be constructed of stones picked up from the mountain sides, with the outer walls finished in a similar manner to the walls of the Inn, very rough and rugged, all stone showing their natural face, and ranging in weight from a few pounds to 2000 or 3000 pounds. The building will be along the lines of the rambling Spanish castle, and will cost approximately \$75,000.

Highland Hospital will be started Monday morning, January 20, by Dr. Robert S. Carrol, principal owner and manager. The additions consist of the addition of

present building of 45 rooms, a part to be three and a part four stories high, with a metal roof, and semi-fireproof. addition is made necessary by the increased patronage of the hospital, which makes a specialty of nervous disorders.

The decorators have just completed the work of finishing and decorating the interior of the Meriwether Hospital, which has been constructed at a cost of \$25,000. This is a brick structure three stories high, with an elevator, specially equipped operating-room with glass on three sides. Each floor is equipped with kitchen, hot and cold water, baths, and with a tele phone system connecting all rooms on each of the floors and basement. This hospital is for exclusively surgery cases, and was constructed as a matter of necessity by reason of the wonderful results obtained in very delicate surgical operations by its founder.

N. BUCKNER, Secretary.

## Plans for Port Bolivar.

Referring to plans for building blast furnaces and steel plant at Port Bolivar, Tex., Wesley Merritt, industrial commissioner of the Atchison, Topeka & Santa Fe Railway system, Chicago, writes to the Manufacturers Record as follows:

"This is a matter in which we have been actively interested for some time in connection with the development of the Feathertsone iron-ore properties in Cass, Marion and Upshur counties, in Northbonds amounting to \$25,000 for a sanitary turning out 300 barrels of flour daily, and 45 rooms to the Oak Lodge wing of the eastern Texas. We are proceeding stead-



A TULLAHOMA MILL AND WAREHOUSE

and has an evident air of solid prosperity in addition to its natural beauty. Near Tullahoma is some wonderfully beautiful natural scenery which constitutes one of the attractive assets of the place. Near of thes beauty spots is built the Knights of Pythias castle.

There are several handsome brick business blocks, good concrete sidewalks, and the town has recently voted an issue of

fields. The town is clean and well kept, | has been in operation 10 years. Mr. Wilkins is a native of Richmond, Va. He says the plant is running full capacity. and has no trouble in disposing of its entire output.

There are also in operation in or very close to Tullahoma the following list of other industries: Furniture factory, tobacco factory, large bottling works run by machinery, brickyards, sawmills, a tannery, flouring mill about three miles out

Work on a \$30,000 addition to the

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ily along, and the first step will be to organize the mining and shipping end of the ore business. This will be accomplished by installation of suitable machinery and appliances, and shipment of the iron ore through Galveston Bay by steamer to Philadelphia for consumption in the Eastern Pennsylvania blast furnaces. I think the delays necessarily arising from there having to be built an expensive piece of new railroad from Longview 30 miles into the ore fields, and now completed, are about over, and the plans for mining and shipping the ore are about ready to go forward. I think regular shipments will commence in June next, and continue thereafter steadily. A few months after that is in regular process the blast furnace proposition for Port Bolivar will receive consideration. The connecting railroad mentioned is completed, but the ironore business is still somewhat in the

"A general plan outlining the whole procedure, beginning with the construction of the railroad and ending with the finished steel products, with all of the intermediate steps, mining the ore, blast furnace construction and operation, etc., was carefully drawn up in the beginning and in advance of any general expenditure beyond engineering examination of the iron-ore properties."

## To Develop Florida Land.

Referring to his company's plans for developing the Florida land purchased last week, E. C. Chambers, general manager of the Chambers Land Co. of Kansus City, writes to the Manufacturers Kecord as follows:

"Concerning our plan of development on the Kissimmee tract, just south of Lake Kissimmee in Florida. We propose to build several hundred houses on the various tracts and to furnish citrus trees and some eucalyptus trees to each purchaser who will go on his land for the purpose of development. The land is sitnated in the artesian belt of Florida, and is 90 per cent. prairie, covered with a luxuriant grass. The Kissimmee River divides this tract, and a boat line makes regular trips from the town of Kissimmee to Fort Bassenger. The East Coast Railway is constructing an additional line through Whittier, just east of this tract, and I am told that trains will be running into Whittier within 30 days. I have searched Florida with extreme care, and I regard this tract as one of the best for colonization purposes in Central Florida. The land will be sold on payments to suit purchaser. The retail price will be \$40 to \$50 per acre. We shall establish a townsite under the name of 'Headwater' at the head of the Kissimmee River. In this townsite many lots will be donated for church and school purposes, as well as business enterprises. I am organizing n new company under the name of the Modern Land Co., with headquarters at 522-23-24 Midland Building, Kansas City, Mo."

## Soil Pipe Plant for Gadsden.

Chamber of Commerce, Gadsden, Ala., January 18. Editor Manufacturers Record:

Through the efforts of a committee composed of Earl Lay, chairman; J. P. Sitz, C. S. Ward, A. W. Woodliff and Secretary L. C. Busch, the Chamber of Commerce has raised \$3000 as a bonus for the establishment of a \$35,000 soil pipe plant here, and work will begin immediately on the plant. The plant will be on the site of one burned some three years ago; will employ about 100 men to start, and will be actively managed by Mr. Otto Agricola of this city, who is



ST. LOUIS SOUTHWESTERN FREIGHT STATION, ST. LOUIS.

Erected for St. Louis Southwestern Railway Co.; 750x30 feet; five stories; steel and reinforced concrete construction; fireproof; floors designed for load of 500 pounds per square foot; each floor divided into compartments about 100 feet long; offices in north end; four electric elevators; sprinkler system; architect, C. D. Purdon, chief engineer of company; contractors, Thompson & Scott.

now in the manufacture of soil pipe here. The plant will be modern in every respect; will operate by electricity furnished by the Interstate Power Co., and is backed by the Hammond-Byrd Iron Co. of Birmingham and kindred interests, as well as local people.

An auxiliary known as the Retail Merchants' Association has been organized here, and is actively engaged now in making arrangements for a "Special Trade Week" for week of March 10, 1913, and a system of credits which will soon be inaugurated. Officers of the new auxiliary are Dr. Le Whorton, chairman; Loui Loveman, vice-chairman; J. E. Stewart, L. C. Busch, secretary : treasurer: Messrs. T. J. Woodliff, Ike Keller, J. W. Taylor, J. E. Stewart and C. W. Vance, trustees. L. C. Busch, Secretary.

## For an Electric Road.

[Special Cor. Manufacturers Record.] Murray, Ky., January 13.

Murray, Calloway county, Kentucky, has high hopes upon the ultimate completion of the line of the Kentucky Southwestern Electric Railway, Light & Power Co., capitalized at \$1,750,000. The home office of this project is at Paducah, Ky., with John D. Smith, secretary.

The road as surveyed and planned will run from Henderson to Paducah, thence to Owensboro, to Mayfield, to Murray, and includes other proposed lines with a total mileage of 210. It proposes to do a general passenger, freight and mail tusiness. The road is being financed by local capital and the sale of bonds. The road will run through one of the greatest dark to-bacco belts in the world, wherein also fruits, such as apples, peaches, pears and strawberries, are grown with great profit.

now in the manufacture of soil pipe here. Murray is a very important tobacco

Calloway county is preparing to issue and sell bonds to the amount of \$40,000 to rebuild the county courthouse, which was destroyed by fire about six years ago.

Murray has about 3000 population, and is 41 miles southeast of Paducah. It has good streets and sidewalks, many good-looking residences, sewerage, electric lights, municipal water-works, etc. Altogether it is a thriving little city.

C. F. DRAKE.

## Settling at Wheeling.

In his annual report to the Board of Trade of Wheeling, W. Va., Secretary R. B. Naylor said:

"One big plant was added to our list through the board's work, in the Merchant & Evans Company of Philadelphia an old and solid concern which took over the Bridge property in North Warwood, and at considerable expenditure converted it into a tinplate dipping plant. This plant got into operation in November, and is now running steadily and employing a large force. There is reason to believe that this is but the beginning of Merchant & Evans' interest here, and that before long the business will be extended into other lines, making a still bigger plant. They have ample room for this in North Warwood on land given them by the board. The fact that this concern, which had the ability to go elsewhere, selected Wheeling, after long and patient investigation of other towns, is a high compliment to our advantages and resources, and shows how favorably successful manufacturers look upon this city. Several smaller plants have been opened

tion, the Wheeling Steel & Tinplate Co., has been organized to give the district another large plant in this line. This plant, for which ground has been broken, will be located over the river, but the payrolls will reach Wheeling, and Wheeling will be a large gainer by its establishment."

#### The Florida Everglades.

Mr. J. O. Wright, formerly supervising drainage engineer, United States Department of Agriculture, and later chief drainage engineer for the State of Florida at Tallahassee, has published an illustrated booklet entitled "The Florida Everglades," the burden of which is adaptability of the vast tract now being reclaimed through drainage for the growth of sugar-cane. For four years Mr. Wright has been advocating the culture of sugar-cane in the Everglades, and this booklet is an elaboration of the arguments he has made in the past, supplemented by results of more thorough and systematic study of the subject. He presents a mass of interesting facts in a brief description of the present condition of the Everglades, and asserts that within a score of years that region will be one of the most productive areas in the United States, and he contends, after a discussion of the soil and climatic conditions necessary for the growth of sugar-cane, the methods and ost of cultivating, harvesting and manufacturing the cane, that, when this land shall have been reclaimed and utilized in the production of sugar, South Florida will actually become the greatest wealthproducing section of the United States.

## Another Arkansas Power Enterprise.

The Arkansas Hydro-Electric Co., Little Rock, Ark., has been organized with a capital stock of \$500,000 and the following officers: President, H. L. Remmel; vice-president and treasurer, C. A. Pratt; secretary, U. S. Bratton. This company plans to construct a dam across the Red River about four miles east of Heber Springs and transmit electricity to Heber Springs, Augusta, Bald Knob, Judsonia, Kensett and Beebe, where it has obtained franchises.

The Clyde Line steamship Lenape, built by the Newport News Drydock & Shipbuilding Co., has been put in service between New York, Charleston and Jacksonville. She is 400 feet long, 50 feet beam and 30 feet deep. Her displacement is about 7000 tons and freight capacity 5000 tons. Electric lights and many other modern improvements characterize her equipment.

Representatives of Southeast Texas and Southwest Louisiana organized last week at Orange for the purpose of furthering the improvement of the Sabine River, with George K. Gibbs of Logansport, president; George W. Bancroft of Orange, vice-president; E. W. Anderson of Orange, secretary, and J. O. Simms of Orange, treasurer.

The Hamilton county, Tennessee, road bond commission, appointed in 1911, has prepared its final report, showing that the proceeds of a \$500,000 bond issue have been spent in giving the county about 100 miles of improved highways.

Within a few days there will be shipped from Savannah, Ga., a cargo of 5550 tons of steel rails to Australia, which required 200 cars to haul them from the plant of the Tennessee Coal, Iron & Railroad Co. at Birmingham.

In the past calendar year of 963,440 tons of phosphate rock shipped from Tampa, Fla., 671,817 tons went to 14 foreign countries.

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## IRRIGATION IN TEXAS.

Water as a Most Valuable Agricul-tural Asset.

The cry of water arising from the arid regions of Texas has caused the Texas Welfare Commission to investigate the subject of irrigation.

The report of the commission shows that 425,000 acres of land are under irrigation in Texas today, and of this area 275,000 acres are in rice and 150,000 in general crops, and the land is the most valuable in the State.

The report further states that water is our most valuable agricultural asset. According to the report of the division of irrigation investigations of the United States Department of Agriculture, there is wasted into the Gulf of Mexico through the ordinary flow of the Trinity River each year upwards of four million acre feet of water: through the Brazos, two million acre feet; through the Colorado one and one-half million acre feet through the Rio Grande, five million feet, one-half of which we claim. Through these four streams at least ten million acre feet of water is each year lost to Texas which, if conserved, would serve as a supplemental supply of water to at least six million acres of land.

The commission finds millions of acres of fertile soil in southwest and west Texas land without an artificial supply of water that has very little value, and there is no section of the State in which the productive power of the soil will not be immensely increased if, when periods of scant rainfall occur, a supplementary water supply is available and applied. The area to be irrigated is only limited by the extent of the water supply. This supply may be drawn from the natural flow of streams, from their flood discharges by impounding in reservoirs, from artesian and from shallow wells.

The commission suggests a unity of effort between the Federal and State governments in the solution of our irrigation problems. The Federal Government stands ready to spend dollar for dollar in this co-operative work with the State. It is hoped that a co-operative bill along this line may be enacted at the coming session of the Legislature.

## Seeking Southern Location.

The Oil-Fuel Equipment Co., Victoria Building, St. Louis, Mo., writes to the MANUFACTURERS RECORD as follows:

"Our company has not as yet decided on the location of its manufacturing plant, and would like to have suggestions from you as to such smaller cities in the South that would desire to have a new industry and where some capital could be raised for the establishment of the plant. We would, of course, be able to consider such places which offer a sufficient supply of skilled mechanics and are favorably located for shipping to the oil-producing territory, where the market for our device would be logically the best."

## For a Woodworking Plant.

Columbia, La., January 16. Editor Manufacturers Record:

There is a splendid location in this territory for a hardwood mill, etc. Almost any kind of mill working with hardwoods, such as oak, gum, etc., will be welcome.

H. W. Blanks.

Following its Christmas edition of 96 pages, the Tampa (Fla.) Times published last Wednesday another special issue of 48 pages, presenting a comprehensive review of the development of Tampa and its tributary territory, calculated to give widespread publicity to the manifold attractions of that region.

# GOOD ROADS

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street

Improvement.
[Further details of highway undertakings and bond issues mentioned below are given under the headings Construction Department and New Securities, published elsewhere in this issue. I

#### Bonds Voted.

Crystal City, Tex.-City voted \$6500 bonds to improve streets.

Groveton, Tex.-Trinity county voted \$60,000 bonds for road construction.

Indianola, Miss .- Sunflower county will issue \$55,000 bonds for road improve-

#### Bonds to Be Voted.

Hazlehurst, Miss. - Copiah county votes February 1 on \$75,000 bonds for road construction.

Houston, Tex .- Harris county votes February 20 on \$1,000,000 bonds to improve paved roads.

Monroe, La.-Quachita parish will vote on \$200,000 to \$250,000 bonds to construct about 100 miles of road.

Tallahassee, Fla.—City will vote in April on \$40,000 bonds to pave portion of Adams and other streets.

Temple, Tex.-City will vote on \$75,-000 bonds for street paving.

### Contracts Awarded.

Anna Maria, Ila.-Town awarded contract to construct about 50,000 square feet of cement sidewalks.

San Angelo, Tex.—City awarded contract for 40,000 square yards pavement; asphalt on concrete base.

Spartanburg, S. C .- City awarded contract for eight miles of cement sidewalk paving; estimated cost \$35,000 to \$40,000.

### Contracts to Be Awarded.

Baton Rouge, La.—East Baton Rouge parish will construct Oak Villa highway; length 16 miles.

Birmingham, Ala.-Jefferson county will cover 15 miles of macadamized roads with asphalt binder or covering to prevent mud or dust; estimated cost \$20,000.

Dahlonega, Ga.—Dahlonega & Gainesville Transportation Co. will construct concrete road; estimated cost \$80,000.

Gueydan, La.-City will construct clayshell pavement to thickness of from four to six inches; cost \$2000.

Hearne, Tex .-- Robertson county opens bids February 11 to construct 60 miles of gravel and sand-clay road.

Many, La.—Sabine parish will invite bids to construct sand-clay road; 12 miles; estimated cost \$20,000.

Maplewood, Mo.-City wi'l pave side walks; cost about \$15,000.

Melville, La .- - Town will appropriate \$5000 to grade and improve streets.

St. Louis, Mo.-City will expend \$379, 645 to improve streets.

Washington, D. C .- District of Columbia receives bids until January 27 to grade certain streets, aggregating about 47,000 cubic yards.

Wetumpka, Ala.-Elmore county will grade, drain and gravel one mile and grade and drain four miles of Tuscaloosa road; expenditure \$5000.

## \$8,000,000 FOR HIGHWAYS.

Activity in Good Ronds Construction in Texas.

[Special Cor. Manufacturers Record.]

Fort Worth, Tex., January 18.
A record kept by the Texas Commercial Secretaries and Business Men's Association on good roads bond elections held in Texas during the year 1912 shows that 33 band elections carried in various

of \$3,496,200 being voted for highway improvements. Altogether there were 50 good roads bond elections held in 41 counties, 17 of which resulted in the issue being defeated. A sum total of \$5,603,700 was voted upon during the year. The amount of funds on hand January 1, 1912, raised by appropriations and issues of bonds prior to that date was approximately \$4,504,456, making a total of \$8,000,656 available for road construction for the year, subsequent to the sale of bonds.

Besides this amount, many counties of the State issued scrip for road work during the year, which will be redeemed at some date in the future. In addition to this, many counties worked their roads out of a fund raised by voting a special tax, which, with their regular road tax, was sufficient to keep up their highways. It is estimated that about one-fourth of the highways improvements carried on in the State during 1912 was accomplished in this manner.

Information received from county judges, commissioners and commercial clubs through the State indicate that over \$5,000,000 was expended in Texas on highways during the year, resulting in the improvement of approximately 1500 mile of roads.

Many counties and precincts have spent as high as \$5000 per mile for road construction during the year, with the result that transportation has been cheapened, land values advanced and the population of the districts served by these high-class highways increased to such an extent that the added valuation of the property thus affected will more than take care of the bond issues.

While the amount was expended per mile for good road construction in many counties of the State, it was the exception rather than the rule, the general average running about \$3000 per mile.

Robertson county took the honors for voting the largest sum for highway improvement during 1912, with a total of \$500,000 good-road bonds voted in four separate elections. El Paso county came second, with \$390,000, while Fort Bend county was third, voting \$355,000 in three elections. Wharton county voted \$300,000 in one election, while Montgomery voted \$250,000. In El Paso county it was necessary to hold two elections before the bonds carried. The first election, held in August, resulted in a defeat of the issue, while in the December contest the issue carried by an overwhelming twothirds majority. In practically every election in which the bonds were defeated the returns showed a majority in favor of the issue, but as a two-thirds count is neces sary to carry, the issues were lost for the time being. However, plans are on foot in nearly every county where the elections failed for another contest in the near future, and in many cases the date has already been set for the second ballot upon the issue. Commercial clubs all over the State are endeavoring to create a sentiment among the rural people for good roads, and have in most cases been instrumental in bringing about the successful result in the bond elections.

While large amounts of bonds were issued by the various counties and districts of the State during the past year for road improvement, and much activity in good roads building has been in vogue for the last several years, the State of Texas itself has done nothing to aid or encourage the building of good roads, and has so far taken no steps to see that the vast sums being raised for this purpose are being wisely spent.

counties of the State, resulting in a total Waxahachie, Tex., chairman of the goodroads committee of the Texas Welfare Commission, to the Texas Commercial Secretaries and Business Men's Association recommends the creating of a State highway department, and it is likely that several bills proposing legislation affecting public highways will be introduced during the session of the Thirty-third Legislature as a result.

> The Federal Government recently appropriated \$10,000 to assist in improving a stretch of Texas highway 50 miles long. and this amount will be increased \$20,000 by Tarrant, Palo Pinto and Parker counties, and the total expended upon a high-way connecting Fort Worth with Mineral

The total mileage of graded roads in Texas approximate about 35,000 miles, which includes all highways under the class improved. Of this mileage, approximately 7000 miles have been given sufficient attention to enter them into the higher class of improved highways. The greater portion of the class of highway considered improved is surfaced with either mud shell, gravel, macadam, crushed rock or sand-clay. J. A. ARNOLD,

# MINING

Carter Coal Co

Referring to plans of his company, reently incorporated with \$10,000,000 capital stock, George L. Carter of Johnson City, Tenn., president of the Carter Coal Co., writes to the MANUFACTURERS REC-ORD as follows:

"For the present Carter Coal Co. will vigorously push the development of its properties in West Virginia and Eastern Kentucky, where it owns large acreages of proved high-grade coking, steam and domestic coals, and will develop properties on Norfolk & Western, Chesapeake & Ohio, Louisville & Nashville and Southern railways. Its product, which will be of excellent quality, will be Pocahontas smokeless and other high fixed carbon and low ash, low volatile, low sulphur coal, and the best Eastern Kentucky coals will be used for coking, steam and domestic purposes. Will build coke ovens later. Tonnage of 1912 was approximately 1,000,000 tons, and will be increased to 3.000,000 tons soon as may be. The officers, all located at Johnson City, are as follows: Geo. L. Carter, president; J. C. Stone, vice-president; S. R. Jennings, vice-president; T. F. Davis, secretary and treasurer; C. A. Hall, assistant secretary and treasurer; S. S. McCormick, pur-chasing agent; F. Zulandt, assistant purchasing agent.

## To Develop Virginia Slate Property.

The National Slate Corporation, Arvonia, Va., has been incorporated with a capital stock of \$25,000 and the following officers: President, George W. Kirkpatrick: secretary, Joseph Fritsch, Jr.; treasurer, B. A. Richards-all of Roches ter, N. Y. A. L. Pitts of Scottsville, Va., is a director.

## A \$350,000 Capital Increase.

The Virginia-Maryland Coal Corporation, Richmond, Va., has increased its capital stock from \$250,000 to \$600,000 for general purposes and continuing the development of its properties.

The Union Terminal Co. at Jacksonville. Fla., proposes to erect a fireproof storage and freight warehouse of concrete construction. It will measure 600x111 feet, and will be four stories high. Funds for this work are provided by an issue The recent report of O. E. Dunlap of of \$240,000 of 6 per cent. bonds.

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## RAILROADS

[A complete record of all new railroad uilding in the South will be found in the Construction Department.]

#### KELLEY FRANCHISE VOTED.

#### Birmingham to Have Another Street Railway System Over 125 Blocks

After delays amounting to more than six months, the street-railway franchise at Birmingham, Ala., requested by the George C. Kelley Company, engineers, of that city, has been granted. It covers more than 125 city blocks, and if built in its entirety the plan will very thoroughly cover both the north and south sides of the city. The backers of the enterprise are not announced, but it is understood that Steiner Bros. of Birmingham and New York associates are interested.

The principal franchise, it seems, is that covering a line on Avenue F, which has been talked about for some years, but was never constructed. This the new company is to build first and finish within a year out to Elmwood Cemetery. It is also provided that a loop be constructed around the courthouse square, besides lines on 22d street, Fifth avenue, 28th street and Eleventh avenue to Magnolia Heights; another line on Fifth avenue to 16th street, Cleveland street and Fifteenth avenue to Hobby street. These lines are on the north side. On the south side lines are thus: From Third avenue alond 22d street to Second avenue, to 23d street, to Avenue B, to 24th street. to Avenue D, to 26th street, to Highland avenue; also from 24th street along Ave nue D to 17th street, to Tenth avenue. to 14th street, to Fourteenth avenue, to 19th street, to Fifteenth avenue, to 21st street. Some subway construction at the crossing of steam railroads will be re quired.

Mr. Kelley is quoted as saying that he is ready to begin work on the lines, and will submit the plans and start construc tion within the required time, totaling about six months.

It is necessary that the railway com pany shall put up a forfeit of \$1000 if the plan be not undertaken; also if the plans be approved by the city, it must put up \$10,000 cash and \$40,000 in notes guarantee that conditions will be fulfilled. If the provisions of the franchise be not complied with, the entire \$50,000 is to be forfeited. The lines must pay from 3 to 5 per cent. of the gross receipts into the city treasury,

The franchise for which application was made recently by the Birmingham. Ensley & Bessemer Electric Railway has not yet been acted upon. It covers nearly as much territory as does the Kelley franchise, and the two systems touch on

## ANOTHER COAL RAILROAD.

## Kentucky, Tennessee & Alabama to Develop Mineral, Timber and Farming Lands.

Edward E. Thorpe of New York, general manager of the Kentucky, Tennesse & Alabama Railroad Co., with headquarters in the East Tennessee National Bank Building at Knoxville, is quoted in a report from there as saying that within 10 days a corps of engineers who are making surveys for this line-formerly known as the Appalachian Railroad-will enter Knoxville, and that options have been secured for a depot site there. East ern capitalists will build the road, which is to be about 183 miles long from Williamsburg, Ky., to Chattanooga, Tenn., with connecting lines to Knoxville, Harriman and Nashville, Tenn., and Birming. Itles and tracks, and to pay a claim of the thus: American Locomotive Co., 40 the regions around the York River and

ham, Ala. Already some of the right of way, covering 25 miles of the route, has secured through Wartburg, Huntsville and Bitter Creek Gap to Harriman. Tenn. Survey has been in progress for six months.

It is said that this proposed railroad will open up one of the finest undeveloped coal and lumber properties in Tennessee, as well as some of the best farming territory. The coal fields are in Scott, Roane and Morgan counties. is estimated that the cost of building the line will be between \$5,000,000 and \$6,000,000, and grading is expected to begin in the spring. The location survey will be completed in a few months. It is further stated that the general contract will be handled by a large Eastern construction company, but that the work will be sublet in sections to various bidders. If weather permits, construction is to begin March 15, and a period of two years is expected to see the completion of

II. F. Lee of Chicago is president, and he is reported to have established the office in Knoxville, where he will remain for the present. J. W. Prevest of Knox secretary-treasurer, and A. C. Olney of Birmingham, Ala., is chief engi-

Details of the plans are to be made public later, perhaps after the directors meeting to be held February 10.

## RAILWAY AND POWER DEAL

#### Frederick and Hagerstown, Md., Publie Service Enterprises Representing \$3,000,000.

It is announced at Frederick, Md., that the Frederick Railroad Co., the Hagers town Railway Co. the Frederick Gas & Electric Co. and the Frederick & Hagers town Power companies will be cons dated, representing more than \$3,000,000 Application must be made to the Maryland Public Service Commission for au thority to fulfil the merger.

The Frederick Railroad has 5915 miles of standard gauge lines thus: Frederick to Catoctin, Md., 14 miles; Catoctin to Thurmout, 4 miles; Braddock Heights to Jefferson, to Middletown, to Frederick. also Middletown to Myersville (the latter being leased road), about 4115 miles The Hagerstown Railway has 40% miles of line, including Hagerstown to Summit Grove, 111/4 miles; Hagerstown to Myers ville, 7% miles: Hagerstown to Boonsboro, about 10 miles; Hagerstown to Williamsport, Md., about 6% miles, and Hagerstown to city line, about 6 miles. All tracks are standard gauge

There is a large power plant nearly completed at Security, Md., of an estimated value of about \$400,000. This is in addition to the present power sources of the companies, and it will be able to not only operate the railways, but furnish current to various points for power and lighting in addition to those now

Emory L. Coblentz of Frederick is president of the Frederick Railroad Co. Henry Holzapfel of Hagerstown is president of the Hagerstown Railway Co.

## \$350,000 TO BE EXPENDED.

#### Tennessee Central Receivers Authorized to Borrow Money and Make Repairs, Etc.

The receivers of the Tennes Railroad have been authorized by the United States Court at Knoxville to issue \$350,000 of receivers certificates, the proceeds of which are to be devoted to paying existing claims against the property, to purchase new equipment, includ ing a locomotive, to repair bridges, tres

Tennessee Terminal Co. at Nashville, where the company and the receivers headquarters are situated. The certificates are to be dated February 1 and will mature in a year. They will bear interest at 6 per cent. Each of the receivers is to receive \$7500 per annum for his servres. They are W. K. McAlister and H. B. Chamberlain of Nashville. The amount to be spent on the track, bridges, etc., is \$150,000.

An official statement is quoted as saving that the railroad company owns 320 miles of lines, 54 locomotives and 760 cars. Thirteen of the trestles need repairs, and the rolling stock is not in the best condition. The estimated value of the road is \$12,000,000, not including the Nashville Terminal Co., and the equipment is \$750,000 more.

Receiver Chamberlain is reported as saying that that all leases and contracts between the Tennessee Central, the Illinois Central Railroad and the Southern Railway have been renewed, and that better schedules for interchange of business between the lines will be established,

### SAN ANTONIO TO AUSTIN.

## Interurban Railway 85 Miles Long to Be Operated by Electric Power.

Particulars concerning the San Antonio & Austin Interurban Railroad Co., which has just been chartered in Texas for a line between the two cities named in its title, are that the road will be about 85 miles long via Davenport, New Braunfels, Hunter, San Marcos, Kyle, etc. The capital of the present organization is nominal, being only \$25,000, but it is under stood that a larger corporation will suc ceed it to fulfil the plans. Principal offices are in San Antonio. Power to operate the cars is to be obtained from hydro-electric plants on the Colorado, the Guadalupe and other rivers. It is said that the right of way will probably be given to the company, and that some of its 6 per cent, preferred stock will be taken by towns on the route. Construction and equipment are expected to cost \$3,000,000. Early completion of the road is anticipated.

Among the incorporators are W. B. Tuttle, vice-president San Autonio Traction Co.: Frederick Terrell, president City National Bank; R. R. Russell, president State Bank & Trust Co.: Franz C. Groos, president Groos National Bank, all of San Antonio; Will C. Barber, president State Bank & Trust Co.; J. H. Barbee, cashier First National Bank, both of San Marcos, Tex.; George W. Littlefield. president American National Bank: Chester Thrasher, cashier Citizens' Bank & Trust Co., both of Austin; Otto Wahrmund, vice-president, and Otto Kochler, president, San Antonio Brewing Association, and Edwin Chamberlain, capitalist, all of San Antonio, Tex.

The directors of the railroad company are Vories P. Brown, W. B. Tuttle, Jess O. Oppenheimer and Sam C. Bell of San Antonio, H. G. Henne, New Braunfels; C. L. Hopkins, San Marcos, and A. J. Eilers of Austin.

## New Equipment, Rails, Etc.

Santa Fe has ordered a 250-ton bridge from the American Bridge Co., New York.

St. Louis Southwestern Railway, says a report, contemplates the purchase of 20 locomotives.

Texas & Pacific Railway is reported to have ordered 1050 tons of bridge steel from the Phoenix Bridge Co., Phoenix-

Pennsylvania Railroad is reported to have ordered 65 locomotives, distributed freight; Baldwin Works, 15 passenger; Locomotive Corporation, switching.

Louisville & Nashville, according to a market report, has ordered 2000 hopper cars from the Pressed Steel Car Co. and 500 hopper cars from the Mt. Vernon (III.) Car & Manufacturing Co.

Among the car orders reported pending in the market are these: Illinois Central, 60 passenger cars; Clinchfield Railway. 500 to 2000 freight cars; Rock Island lines, 50 passenger cars; Southern Railway, 200 box cars and 200 coal cars.

San Antonio & Aransas Pass Railway. it is reported, has sold 8000 tons (about 100 miles) of relaying rails weighing 50 ounds per yard to the National Iron & Steel Co., Houston, Tex. It is now laying 70-pound rails.

Chesapeake & Ohio Railway expects to purchase soon 12 Mallet freight locomotives, 8 Pacific type passenger locor tives and 2000 hopper bottom gondola cars. The company has already placed an order with the Pullman Company of Chicago for 15 passenger cars, 3 combination cars and 2 dining-cars, all of all-steel construction. Besides these, 2 all-steel postal cars have been ordered from the Pressed Steel Car Co. of Pittsburgh.

## To Promote Railroad Safety.

"The daily life of railway men is surrounded with unusual hazards. Long acquaintance with them has made these hazards seem but a part of the day's work. Analysis of causes of injury, how ever, shows that by far the larger percentage could be prevented if all employes were always on the alert to insure absolute safety in every operation."

The above quotation contains the text for a booklet which the Pennsylvania lines are shortly to place in the hands of every one of their 85,000 employes, having determined to redouble their efforts to insure to the employes social justice. healthful surroundings and every safe guard against danger.

The booklet to be issued by the Pennsylvania lines also contains the following

"So far as practicable, the company is doing what it can to eliminate dangerous conditions, but it is evident that that cannot bring about a material reduction in the number of injuries without the hearty co-operation of the employes.

"You are urged, therefore, not only to watch out for your own safety, but to warn other employes of danger, and to discourage any acts of recklessness on the part of those who, by reason either of their inexperience or their familiarity with their work, fail to take proper precautions for the safety of themselves. their fellow-employes or the traveling public."

## Richmond-West Point Improvements

The Southern Railway is about to begin extensive improvements to its line from Richmond to West Point, Va., 39 miles, in order to provide ample facilities for increased freight and passenger business in connection with the steamers of the Chesapeake Steamship Co. between Baltimore and West Point, which will establish a daily service on the York River Line when two new steamers, which are now under construction, are completed. Heavy rails will be laid on the entire line. taking the place of 54 and 60-pound rails. The track will also be newly ballasted. structures will be strengthened and the whole permanent way will be put in shape to carry heavier traffic. The work will be finished in about six months. This additional service is expected to assist in developing farming and fruit growing in

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along the road from West Point to Richmond, besides increasing the amount of trade between Eastern cities and Baltimore, Richmond and the interior of Virginia.

## Memphis Bridge to Be Built.

A report from Memphis, Tenn., says that the Chicago, Rock Island & Pacific Railway and the city have reached an agreement concerning the large terminals which the railroad is to build there, and the construction of the proposed big bridge over the Mississippi is now assured. Construction is to begin in July next, and the terminal improvements, including the bridge, are expected to cost about \$5,000,-000. The Arkansas & Memphis Railroad Bridge & Terminal Co. is the name of the subsidiary corporation formed for the purpose of the work. Government authority to erect the bridge was obtained some time ago.

The ordinance agreed upon provides that a free roadway for the use of wagons must be provided on the bridge; that shippers must be guaranteed against discrimination in freight rates, and that \$50,000 must be paid to the city by the railroad company.

## Baltimore & Ohio Earnings.

The Baltimore & Ohio Railroad Co. has issued its statement of earnings and expenses for December, 1912, and also for the first six months of the company's fiscal year, which began July 1. The figures for December were: Operating revenue \$8,303,097, increase as compared with the same month of 1911, \$1,114,843; total operating expenses \$5,978,618, increase \$875,067; net operating revenue \$2,324, 479, increase \$239,776. For the six months: Operating revenue \$52,440,338, increase as compared with the same period of 1911, \$5,526,954; total operating expenses \$36,425,109, increase \$4,366,319; net operating revenue \$16,024,229, increase \$1,160,635. It is estimated that the outside operations of the company, which are not included in the foregoing. will show a deficit of \$70,000 for December, an increase of about \$14,000 as compared with December, 1911.

## Electric Road Through Coal Country.

H. C. Brunson, Cumberland Falls, Ky. says that "Eastern parties" are figuring on the construction of an electric railway from a connection with the Louisville & Nashville Railroad to a connection with the Cincinnati, New Orleans & Texas Pacific Railway (Queen & Crescent Route), about 22 miles, using the water-power at the falls to generate electricity. He also says that the entire country to be traversed by such a road is underlaid with coal, and that as there is no east and west road through this region for a distance of 137 miles, from Junction City, Ky., to Harriman, Tenn., he thinks a line would pay from its beginning. Experts have estimated that with a storage dam there would be 20,000 horse-power at the falls for every day in the year.

## To Sell a Small Road.

A report from Spartanburg, S. C., says that an order of court has been signed by Judge R. W. Memminger for the sale of the Glenn Springs Railroad property by the receiver, H. S. Simpson, the sale to be at auction on April 1. The road is 10 miles long, has one locomotive and a small amount of other equipment and buildings.

M. K. Butler has been appointed trav eling freight and passenger agent of the Georgia & Florida Railway, with headquarters at Moultrie, Ga.

# **TEXTILES**

[A complete record of new textile enter-prises in the South will be found in the Con-struction Department.]

ondence relating to textile matters specially to the cotton-mill interests of the especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

### The E. A. Smith Plant.

The E. A. Smith Manufacturing Co. of Charlotte is progressing with the erection of its previously described plant at Rhodhiss, N. C. Its main building is 275x108 feet, three stories high, with picker-room end of reinforced concrete construction for all floors and remainder of standard slow-burning construction. Its textile machinery will include 15,000 spindles and 450 looms, driven by direct waterpower rope drive from the Catawba River. Contracts were awarded as follows: Engineer and contractor, Shand Engineer ing Co. of Columbia, S. C.; looms, Whitin Machine Works of Whitinsville; pickers, cards, drawing and roving frames, Howard & Bullough American Machine Co. of Pawtucket: spinning machinery, Fales & Jenks Machine Co. of Pawtucket.

## Aldora Mills.

Outlining that company's previously announced improvements and enlargements, now about completed, the Aldora Mills of Barnesville, Ga., writes to the MANUFACTURERS RECORD as follows:

"Complete electrical drive throughout plant with current from Central Georgia Power Co.; addition of building 105x165 feet, two stories high; installation of 12,000 Fales & Jenks tape-driven twisters; five gangs of universal filling winders; Lowell slasher and beamer; 169 Crompton & Knowles looms; American warp tying machine; complete clothroom outfit; American Moistening Co.'s humidifiers used throughout the plant; village recently remodeled and repainted, with addition of 25 new operatives'

## Ware Shoals Mill Additions.

The Ware Shoals (S. C.) Manufacturing Co. is progressing with the erection of its additions begun some months ago These enlargements include the following: No. 2 mill, two stories high and 308 feet long by 160 feet wide, of slow-burning mill construction except that some floors are of reinforced concrete; two-story 150x 59-foot addition to clothroom of No. 1 mill; 2000-kilowatt generator, direct connected by water-wheel, in power plant; amusement hall, 132x66 feet, two stories and basement. The Gallivan Building Co., Greenville, S. C., is the contractor.

## The Cotton Movement.

In his report for January 17 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight in the 139 days of the present season was 10,304,308 bales, a decrease under the same period last season of 354,406 bales. The exports were 5,856,758 bales, a decrease of 258,554 bales. The takings were, by Northern spinners, 1,518,858 bales, an increase of 103,680 bales; by Southern spinners, 1,539,181 bales, an increase of 301,133 bales.

## To Enlarge Clara Mill

panying machinery. Its management has decided upon this enlargement, and the necessary contracts have been awarded. The company now has 6200 ring spindles, 3400 twister spindles, 13 cards, etc., driven by electric power.

## Highland Cotton Mills.

The Highland Cotton Mills, High Point. N. C., has organized with the following officers: President, J. H. Adams; vice president, J. H. Millis; treasurer, J. Ed. Millis; secretary, H. F. Hunsucker. This company will erect a brick and reinforced oncrete mill building, 390x125 feet, and install 12,000 spindles, with accompanying machinery for manufacturing hos-iery yarns. It will also erect cotton warehouses and an office building, all of fireproof construction. The company was reported as recently incorporated. and it is capitalized at \$125,000. Its output will be consumed by the High Point Hosiery Mills, of which Mr. Millis is president.

## A \$100,000 Mill Addition.

The Park Cotton Mills, Lagrange, Ga., will build a \$100,000 adition, and has engaged Park A. Dallis of Atlanta as the architect in charge. The company will erect a 196x109-foot two-story building, with tower, and install textile machinery. the extent of which has not been an nounced. It now has 1600 ring spindles, 52 looms, etc.

## To Double Plant.

The Anchor Mills, Huntersville, N. C. will double its plant, this requiring the rection of an additional building and the installation of about 5000 spindles, with accompanying machinery. At present the company is operating about 5000 spindles, 400 looms, etc., on the production of zephyr and similar cotton cloths.

## A \$100,000 Hosiery Company.

Gurney Kearns and Thurlow Kearns of High Point, N. C., will organize a company capitalized at \$100,000 to build a plant equipped with 100 knitting machines for a daily capacity of 500 dozen pairs of They will erect a two-story 100x60-fcot building, boiler-room, etc.

## A \$50,000 Knitting Company.

The Englewood (Tenn.) Manufacturing Co. has been incorporated, with an authorized capital of \$50,000, by R. H. Hicks, J. M. Wilson, L. A. Copenhaver and others. It will erect a building and install machintry for manufacturing knit

## A 10,000-Spindle Addition.

The Whitney (S. C.) Manufacturing Co. will erect an additional building and install 10,000 spindles, with accompanying machinery. It has ordered plans and specifications. Its present equipment includes 20,572 spindles, 650 looms, etc.

## Textile Notes.

The Maxwell Hosiery Mills, Suffolk. Va., has increased capital stock from \$7500 to \$20,000.

It is rumored that W. B. Bell, Newcastle. Pa., is interested in a plan to establish a textile mill at Memphis, Tenn.

G. H. Tilton & Co., Tilton, Miss., are reported as contemplating the establishment of a knitting mill at Charlotte, N. C.

The Adelaide Mills, Anniston, Ala., will add 1616 spindles and is reported to have let the contract for this additional new machinery.

10,000-spindle plant for manufacturing cotton yarns.

The Deep River Mills, Randleman, N. C., advises the MANUFACTURERS RECORD that the recent report was not correct stating that company will build a weaving mill and cement dam.

The Armour Packing Co., Kansas City, Mo., will install an equipment of machinery for cleaning, assorting and grading the wool from the pelts of the 1,200,000 sheep killed annually at Kansas City.

The Dudley Shoals Cotton Mill Co., Granite Falls, N. C., has purchased shoals on Little River and will construct a hydro-electric plant for transmitting electricity to its cotton mill at Granite Falls, four miles distant.

The Chatham Manufacturing Co. Elkin, N. C., will build an addition and has awarded the contract to R. L. Poindexter of Elkin. It is now operating an equipment of 2000 spindles, 60 looms, 6 sets cards, dyeing machinery, etc.

The Guadalupe Valley Cotton Mills, Cuero, Tex., writes to the Manufacture ERS RECORD: "We now have men at work installing three new 40-inch Lowell cards, eight heavy 40-inch Lowell looms, one Lowell spooler, two Lowell drawing frames and a Kitson card and picker waste machine."

# FOREIGN NEEDS

### For American Manufactures.

H. Drawe & Co., Hanauerlandstrasse 27, Frankfurt, Germany, write to the MANUFACTURERS RECORD as follows:

"Concerning our intention of establishing business relations with the industries of your country, we beg to inform you that it is our aim to act as manufacturers-agents in first line. We are ready to take an interest in any kind of manufactures. offering a good chance to be successfully introduced in our markets. For such articles we are open to take the general agency for distribution in Germany with the purpose to arrange special agencies all over the country, a system which we consider as best method to introduce any article successfully. Besides arrangements above mentioned, we would take an interest in such articles, coming new the market, patented and notions, suitable to be sold to wholesale, or also on the advertising way direct to the con-

## Wanted for Turkish Trade.

A. & D. Demetriades, 4 Ada Han. Galata, Constantinople, Turkey, write to the Manufacturers Record:

"We are desirous of building up a business in American products of the lines we handle, as we believe that marked advantage would accrue therefrom. To this end we would appreciate your furnishing us a list of manufacturers of such lines as mineral oils, paints, copper paints, varnishes, marine stores and general shipchandlers' articles."

## Automobiles and Tractors.

1. Teywelis, Odessa, Russia, writes to the MANUFACTURERS RECORD as follows:

"I ask you to put me in correspondence with one of the leading automobile manufacturers who would do good work at a reasonable price. I would also be able to handle traction engines that can be operated with black naphtha or petroleum

The Eastern Shore of Virginia Produce The Clara Manufacturing Co., Gastonia, N. C., will erect a 75x120-foot addition and install 3700 spindles with accomination of a 6000-spindle mill. It now has a \$35,000.

# **MECHANICAL**

## Electric Equipment on the Farm.

The advantages of electric lights and power for operating the various machines that are used on the farm are well recognized, and individual instances of such use are of particular interest to those who are so located that electricity may be easily furnished. The development of installations for outdoor use has reached that point at which the expense of build-



ELECTRIC EQUIPMENT FOR FARM.

ings for such installations may be eliminated, so that the electricity may be applied at a comparatively low cost for equipment.

One installation of this kind is shown in the accompanying illustration, and was furnished by the Westinghouse Electric & Manufacturing Co. of East Pittsburgh, Pa., to W. W. Mills, vice-president of the Parkersburg, Marietta & Interurban Railroad Co. of Marietta, O., for his farm of 60 acres, which lies between Marietta and Parkersburg, about two miles from Marietta.

The company of which Mr. Mills is vice-president supplies light and power in these terminal cities, in addition to operating the railway. The railway line runs parallel with the river and directly through the farm, so that, in addition to furnishing electrical power, excellent transportation facilities are furnished.

In order to secure electricity the 22,000volt transmission line was tapped, and a transformer and switching apparatus, as shown in the illustration, were installed. The installation consists of a threephase 60-cycle 15 Kva. standard outdoortype transformer, giving 110 to 220 volts on the secondary line. The small building contains the switchboard and watthour meter, and an auto-starter for a 10-horse-power motor, which is located about 1200 feet away on the bank of the river. This motor is used for pumping water for all purposes on the farm, including irrigation, watering stock, etc.

Appreciating the many advantages of electrical devices in the home, advantage has been taken of the electrical installation to light the residence and equip it with the many electrical devices that do so much to make home work attractive. These include electric toaster stoves, electric irons, vacuum cleaner, electric washing machines, and sewing-machine motor. Numerous other electrical devices are added from time to time to this "modern home on the farm."

This installation has proved conclusively to the officials of the railroad com-

pany that it is entirely feasible to tap for power and lighting purposes the transmission line which had heretofore been used only for supplying power to the railway. By this means it is possible to supply a number of villages and small towns along the line of railroad, and thus derive a considerable revenue at a small outlay.

The vast amount of electrical energy that is being produced by hydro-electric plants of the South, and the many miles of transmission line which traverse many localities, make this feature of the use of this electrical energy of the greatest interest and importance. The cost of generating this electricity is to a large extent a fixed quantity, so that the important thing is to obtain the maximum number of consumers to use this energy. This phase of the subject will be of constantlygrowing interest, and will no doubt eventually lead to the establishment of 'modern homes on the farms" throughout the sections supplied by electric transmission lines.

## Dodge Machinery Safety Device.

Much thought has been devoted to safety devices to guard against accidents in handling rolls in crude rubber mills. The Mishawaka Woolen Manufacturing Co., operating a large rubber factory at Mishawaka, Ind., which had encountered trouble in this direction, laid the problem before the Dodge Manufacturing Co. of that city, with instructions to design a safety device to prevent accidents' to the fingers and arms of the employes. The plans called for the use of a Dodge split friction clutch on the lineshaft supplying power to the machines, placing the pulley under the control of the roll operator by means of a strong cord. Certain mechanism was required between the cord and the clutch, and this is where the ingenuity of the Dodge engineers was required.

Charles M. Collins explains the work as follows, and the photograph made while it was under test in the Dodge shops shows the operation of the safety device. The accompanying illustration shows the lineshaft equipped with Dodge self-lubri-

clutch is in gear, and at the time photo-

The governing feature is in the fore-

lutions per minute.

in position by hook levers (E) and tripping links (F). The handwheel is nece sary to throw the clutch in gear, and is disconnected from the mechanism with shifting lever (A), sliding pinion (B) for. out of gear with segment (C). In case of emergency requiring quick stopping of the machinery, the operator pulls the cord, raising the links (F), releasing the hooks (E), when the weight (D) drops without shock, and will provide two pres-

which controls a heavy weight (D), held the same relation to the pumps as a storage battery does to an electric-power plant, so that when many presses receive their hydraulic power from one supply, the unusual demands made are provided

The Watson-Stillman Hydro-Pneumatic Accumulator, as shown in the accompanying illustration, has no heavy weights, occupies little space, operates



HYDRO-PNEUMATIC ACCUMULATOR.

with lever (H), which, striking a lug on sures, a low pressure for effecting that the shaft, disengages the clutch.

It is stated that this safety device has een so successful in its work at the Mishawaka Woolen Co.'s factory that it has been adopted by the Rubber Regenerating Co. of the same city, and at the recent conservation congress accident prevention display, Indianapolis, Ind., the exhibition of these designs attracted wide attention and much favorable comment.

### Watson-Stillman Hydraulic Accumulators.

The importance of hydraulic accumucating rigid and extra heavy rolling-mill lators used in connection with equipment

part of the stroke which is made without resistance, and the high pressure that effects the final squeeze. The change from low to high pressure is made automatically at the instant when the ram encounters resistance which the low pressure cannot overcome. The equipment consists of a large boiler-plate tank, kept partially filled with water by the lowpressure pump, the operation of which is controlled by the hydraulic governor shown just to the left of the tank in the illustration. By means of this governor the pump is stopped when the water reaches a desired level in the tank, and when it falls below this level the pump is started. Above the water an air pressure of 180 to 200 pounds is maintained by the compressors shown at the left of the illustration. The low pressure feed may be tapped into the bottom of this water tank and through it water is forced by the pressure of air to the upper part of the tank. This air pressure is piped over to the accumulator proper, at the right of the illustration, and by the force it exerts upon a piston moving in a large cylinder at the top balances the higher pressure from the pump acting upon the piston in the small cylinder below it. The areas of these pistons are made inversely

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The operation of the high-pressure pump is controlled by the governor shown in the front of the accumulator in the same manner as the low-pressure pump is controlled by its governor. From this it results there is no waste of power, since high pressure is not used when low pressure suffices. These accumulators are made in any size, with pressure from 300

seventh annual convention of the South-

western Electrical and Gas Association.

with headquarters at Dallas, Tex., has

been published in an attractive volume.

proportional to the pressure upon them. pounds to 6000 pounds. The report of the proceedings of the

the Watson-Stillman Co., 38 Church St., N. Y., to perfect the equipment as shown in the accompanying illustration. Pumps could be built to supply the required pressure direct, but it would be at a great ina storage vessel for water under the same pressure at which the pumps are operated,



ground of the illustration. The cord from It contains the full text of the addresses the operator's position, carried by the aid of a pulley and vertically and horizonmade and of the discussions based upon to provide for "peak loads," and bears tally arranged, is tied to a loop (G), the question box.

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# Construction Department

## TO OUR READERS!

In order to follow up properly the Construction Department items, please bear in mind the following

#### EXPLANATORY

The MANUFACTURERS RECORD seeks to verify the items reported in its Construction Department by full investigation. It is often appossible to do this before the item must be printed or else lose its value as news, and in some items it is found advisable to make statements as "it is reported" or "rumored," and not as positive information. If our readers will note these points they will see the necessity of the discrimination. We are always glad to have our attention called to errors that may occur.

#### HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should al-ways be shown on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item. Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will be enabled to deliver your mail promptly, although it is inevitable that some failure by the postal authorities to deliver mail to new rns will occur.

#### WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter writthen specifically about the matter reported will receive better and quicker attention than a circular. In most instances a return postal card or addressed and stamped en-velope should be enclosed with letter.

In correspondence relating to in-formation published in this depart-ment, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

The Daily Bulletin of the Manufac The Daily Bulletin of the Manufacturers Record is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$25 per The subscription price is \$25 year. On all advertising contracts year. On all advertising contracts to months or longer a subscription to the Daily Bulletin is included for the

## BRIDGES, CULVERTS, VIADUCTS

Ala., Birmingham.-Southern Railway, B. Ala., Birmingham.—Southern Railway, B., Herman, chief engineer, Washington, D. C., awarded contract to John W. Ashe of Chattanooga, Tenn., to construct viaduct at 27th St. and 12th Ave., Norwood, across tracks of Southern Railway, Illinois Central Railroad and St. Louis & San Francisco Railroad; reinforced concrete construction; length 149 feet; five spans; width 60 feet; estimated cost, \$22,000. (Further facts recently noted.)

Ga., Macon.-City Council adopted report of finance committee recommending that city acquire Spring St. bridge and make repairs; county to contribute \$6000 and Water Commissioners \$3000; expected that city will contribute \$4000 additional; C. C. Anderson

La., Tallulah.—Madison Paristi Police Jury awarded contract to Haas-Skinner Engineering Co. of Dallas, Tex., at \$5500 to construct two bridges, one across Roundaway Bayou, eight miles from Tallulah, and one across Bull Calf Bayou, seven miles from Waverly, La. (Call for bids lately noted.)

Md., Baltimore. — Pennsylvania Raliroad, Alexander C. Shand, chief engineer, Phila-delphia, Pa., contemplates constructing ornamental four-track concrete bridge across Gwynn's Falls near Western Cemetery; clearance of 20 feet.

Miss., Batesville.-Panola county will construct Farley (new) bridge over McIver Creek six miles west of Batesville; steel (new) bridge across Yarbrough's ditch, four miles west of Como; steel (new) .

N. C., Charlotte—Bricks,—F. S. Tucker and

bridge across Bynum Creek; new steel bridge over Hays Creek north of Hays Bros.' store, and approaches and additions to steel bridge at Reeder's Ferry; contracts let February 3; R. W. Draper, Clerk. (See "Machinery

Mo., Joplin.--City voted \$50,000 bond issue to pay its share of cost of constructing reinforced concrete viaduct on Broadway across Kansas City bottoms; Union Depot Co. and Southwest Missouri Railroad are interested; proposed to build structure 1000 feet long and 40 feet wide with readways 22 feet long and 40 feet wide, with roadway 23 feet wide and sidewalk; C. B. Anderson, City Engineer. (Recently mentioned.)

Tenn., Nashville.-Tennessee Central Railroad (H. B. Chamberlain, receiver) has been authorized to Issue \$350,000 of receivers certificates, of which \$150,000 i specified for repairing bridges and trestles.

Tex., Galveston,-Government will erect four highway swing bridges across Inland Waterway between Brazos River and Mata-gorda Bay; bids received until 12 M. February 20; C. S. Riche, lieutenant-colonel engineers. (See "Machinery Wanted.")

Tex., Houston.—Harris county votes February 20 on \$1,000,000 bond issue to construct and improve bridges and roads. Address County Commissioners. (See "Road and County Street Work.

Va., Crozet.-Southern Railway Co., B. Her was, Clozer-Southern harlway Co., B. Re-man, chief engineer, 1300 Pennsylvania Ave., Washington, D. C., and Chesapeake & Ohio Railway Co., F. I. Cabell, chief engineer, Richmond, Va., will construct viaduct across

#### CANNING AND PACKING PLANTS

Ala., Birmingham.-W. F. Donovan Provi sion Co. chartered with \$150,000 capital stock F. W. Blackford, vice-president; erect pack associates will establish brick plant with daily capacity 10,000 "Unit" brick. (See "Mining.")

W. Va., Mannington - Pottery. Pottery Co., authorized capital \$500,000, in-corporated by George W. Bowers, Sarah G. Bowers and L. S. Schwenck of Mannington, Frank W. Bowers and C. A. Bowers of Wheeling, W. Va.

### COAL MINES AND COKE OVENS

Ky., Elys.—Camp Coal Co., capital stock \$40,000, incorporated; R. C. Ford, president, \$40,000, incorporated; R. C. Ford, president, Middlesboro, Ky.; H. N. Camp, secretary-treasurer and manager; main office, Knox-ville, Tenn.; will continue development of 625 acres coal land owned by H. N. Camp, Sr.; increase present daily capacity of 200

Ky., Gatliff.-Mammoth Blue Gem Coal Co. Ky., Gatha.—Mammoth Blue Gem Coal Co., S. L. Smith, manager, will develop 350 to 400 acres of coal land; daily capacity, 300 to 500 tons of coal; probably install electrically operated machinery. (Recently noted at Williamsburg, Ky., as to increase capital stock to \$25,000.)

Ky., Hazard.-J. B. Allen, manager Slei Coal Co., advises Manufacturers Record that Kentucky Jewel Coal Co. will develop 500 Kentucky Jewel Coal Co. will develop 500 acres on lease from Slemp company; daily capacity, 1000 tons; work commenced; use electric machinery, cost not decided; Dr. Samuel Bennett, Middlesboro, Ky., president of Kentucky Jewel Coal Co.; Harry E. Bullock, vice-president and manager; Dr. D. A. Foley, Jellico, Tenn., secretary-treasurer. Slemp Coal Co. has several additional leases soon to be in operation. (Previously noted.) on to be in operation. (Previously noted.)

Ky., Middlesboro.-Mingo Coal Co. Incor-orated by John Reese, Mollie Reese and

Ky., Williamsburg.-Bank Coal Co., tal \$6000, incorporated by Ed Houston, John Pfaff and I. B. Pfaff.

## CONCRETE AND CEMENT PLANTS

Tenn., Cleveland-Sewer Tile.-Cleveland Concrete Construction Co., S. W. Griffith, manager, will establish concrete sewer tile

#### COTTON COMPRESSES AND GINS

Okla., Konawa. — Farmers' Independent Gin Co., capital \$10,000, incorporated by G. W. Cummings, W. C. Davis, J. M. Phillips, Ed. Greer and T. A. Smith.

Tex., Josephine.—Moudy & Seaman will re-build cotton gin; buildings will include gin-house, cotton and seed house; install six-stand gin outfit. (Recently reported burned.)

Tex., Kaufman.—Kaufman Compress Co., J. W. Murchison, president, Athens. Tex., will build cotton compress with daily capacity 50,000 bales.

Tex., Seguin.—Guadalupe Compress Co. will uild cotton compress.

## COTTONSEED-OIL MILLS

Tex., Caldwell.—Caldwell Oil Mill Co., J. C. Womble, president, and T. J. Oliver, manager, increased capital stock to \$40,000; operates three-press mill, 40 tons capacity. Recently noted.)

(Recently noted.)
Okla., Mangum.—Geo. Dashner, assistant general manager Chickasha Cotton Oll Co., Chickasha, Okla., advises that Farmers' Cotton Oll Co., W. W. Harris, president, and C. G. McKenzie, secretary and manager, will commence construction of recently-noted (rebuilt) structure in April; 50x150-foot main building. daily consents. So tone complete the commence of the comm building; daily capacity, 80 tons; comple-tion for 1913 crush,

Tex., Waco,-Brazos Valley Cotton Oil Co. tates does not contemplate erect onseed-oil mill recently reported.

## DRAINAGE AND IRRIGATION

Fla., Tampa.—Anna Maria Beach Co., G. ean, president, contemplates drainage work in connection with development of bleasure resort at Anna Maria Beach. (Schachinery Wanted.")

La., Schriever.—Bayou Blue District of pper Terrebonne Drainage District voted to construct gravity drainage system, re-claiming 4000 acres land. Address Drainage

Miss., New Albany. - Commissioners of Miss., New Albany. — Commissioners of Okonitic, Hatchis and Lappatubba Drainage Districts of Union County awarded con-tract to D. W. Robins of Tupelo, Miss., to construct drainage canal; length, 14 miles.

Tex., Houston.—State Land Co., capital stock \$500,000, incorporated by John Thomp-son, James F. Sadler, Jonathan Lane and Lee C. Ayres; will irrigate and grow rice on 6000 acres land in Harris and Galveston

## ELECTRIC PLANTS

Ark., Argenta.—J. W. Carpeuter of Corsicana. Tex., will build power plant and construct terminals; secured 50-year franchise to operate street railway.

Ark., Little Rock.-Merchants' Light Co. vill erect building; one story; brick; cost

Pocahontas. - Pocahontas Power & Ice Co., capital stock \$25,000, in-corporated by W. H. Skinner, Ben A. Brown and S. A. D. Eaton. Mr. Skinner is presi-

Fla., Arcadia.-Arcadia Electric Light & Telephone Co. will enlarge plant and in-stall machinery.

Fla., Live Oak.—City Council endorsed proposition to install "White Way" in business portion of city. Address The Mayor.

Fla., Live Oak.-J. G. White & Co., 43 Exchange Place, New York, acquired power plant and ice factory; possession March 1; reported to make improvements.

Fla., St. James City.-Sisal Hemp & Development Co., Lorenzo A. Wilson, Jackson-ville, Fla., president, is installing recently-noted electric-light plant in main power-house already erected; 100 horse-power; cost \$5000; G. E. Conillard, Boston, Mass., con-

Ga., Adairsville.—City contemplates build-ng electric-light plant. Address The Mayor.

Ky., Frankfort.—Kentucky Public Service Co. will improve light and power plant; main offices in Owensboro, Ky. (See Ky., Hopkinsville.)

Ky., Vine Grove,-Town Council contracted

Rate 20 cents per line per issue. When Proposal Advertisements cannot be sent by mail in time to secure insertion before date for opening bids, please wire advertisement copy collect by Day Letter

Proposal Advertising forms close Wednesday, 10 A. M.

PROPOSAL ADVERTISEMENTS

IN THIS ISSUE ARE

PUBLISHED ON PAGE 80 and 81

In order to secure best bids from leading engineers, contractors and investment houses, the proposal advertising columns of the Manufacturers Record are invaluable.

Ala., Birmingham.-Alabama Packing Co., capital stock \$50,000, incorporated; R. A. Lewis, president-general manager; George B. Tarrant, vice-president; Thomas Stobert, secretary-treasurer.

Fla., Tampa.—Tampa Packing Co. (recently noted incorporated with \$100,000 capital stock), H. T. Lykes, president, opens bids about February 1 to erect packing plant; slowed reordary 1 to erect packing plant, 80x90 feet; fireproof construction; cost \$25, 600; plans by C. H. A. Wannenwitch & Co.; cost of machinery (for which bids will be opened about March 1), \$10,000. (See "Machinery Wanted.")

Md., Royal Oak.-Frank P. Hall will build cannery and sawmill.

Tenn., Dickson.-Sunbright Canning Co reorganized with \$6000 capital stock; will crect concrete cannery to replace plant re-cently reported burned at estimated loss of

Va., Front Royal.—Front Royal-Riverton Board of Trade, Hugh E. Naylor, secretary, advises of contemplated establishment of tomato cannery. (See "Machinery Wanted.")

## CLAYWORKING PLANTS

Fla., St. Petersburg - Bricks, etc. - St Petersburg Ornamental Stone & Brick Co. apital \$15,000, incorporated with J. F.

Mo., Carthage-Bricks.—C. E. McClusky and C. S. Bahney of St. Joseph, Mo., sub-mitted proposition to Business Men's League for establishment of brick plant to have daily capacity 25,000 to 100,000 bricks; esti-

of North American Co., 30 Broad St., Ne York, and associates are reported as o York, and associates are reported as organizing company, capitalized at \$3,500,000 to \$5,000,000, to build coke plants at various cities, including St. Louis, M. De Taube, Hotel Jefferson, St. Louis, Mo., wires Manufacturers Record: "Proposed capacity, 1900 tons coal per day; to be increased at later date; initial capital expenditures estimated at \$2,250,000; financial interests include some of most prominent Eastern canifalists; refer of most prominent Eastern capitalists; refer to White, Weld & Co., New York, for par

Okla., Henryetta.-Deep Fork Coal Mining Co. (recently noted incorporated, \$10,000 cap ital stock) will develop 300 acres; daily ca-pacity 390 to 400 tons; C. H. Kellogg, presi-dent; J. H. Savage, secretary. (See "Ma chinery Wanted.")

Va., Dante.—George L. Carter, president of Carter Coal Co., Johnson City, Tenn., advises Manufacturers Record as follows: "Carter Coal Co. will vigorously push devel-opment of its properties in West Virginia and Eastern Kentucky, where it owns large acreages, and will develop properties on Nor-folk & Western, Chesapeake & Ohio, Louis-ville & Nashville and Southern railways; will build coke ovens later; tonnage of 1912 was approximately 1,000,000, and will be in-creased to 3,000,000." (Recently reported increased to 3,000,000." (Recently reported in-corporated with \$10,000,000 capital stock, etc.)

Va., Richmond,-Virginia-Maryland Coal Corporation increased capital stock \$250,000 to \$600,000; for general purpose continuing development of its properties.

W. Va., Fairmont.—Lehigh Coal Co., capital stock \$150,000, incorporated by R. A. Pollock of Massillon, O.; Thomas Williams, B. P. Porter, David Morrison and G. D.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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with W. A. Burkhart to install dynamo and furnish electric lighting.

Ky., Hopkinsville.—Kentucky Public Service Co. will improve electric and gas plants at Hopkinsville, Bowling Green, Frankfort and Owensboro in Kentucky and Clarksville, Tenn.; plans to expend \$100,000 in Hopkinsville; principal improvements to be electric power-house equipped with boilers turbine engines, etc., and change of distribution system from four-phase to three-phase, requiring practically rewiring of city; improvements now being made at gas works will double capacity.

Ky., Louisville,—Seelbach Realty Co. opens bids about March 1 to erect power plant corner 4th and Walnut Sts.; 95x100 feet; four stories; Webster Gazlay, engineer in charge; cost \$75,000; contract for mechanical equipment placed; after completion of powerhouse will erect 100-room hotel. (Previously noted.)

La., Donaldsonville.—City awarded contract to R. L. Stewart to erect powerhouse; cost \$8000.

Md., Frederick.—Frederick Gas & Electric Co., Frederick & Hagerstown Power Co., Frederick Railroad and Hagerstown Railroad completing plans for consolidating will apply for authority to Public Service Commission: properties to be combined represent investment of about \$3,000,000.

Mo., Rich Hill.—City (recently noted engaging Rollins & Westover, 420 Midland Bldg., Kansas City, Mo., to prepare plans) will expend \$15,000 on improvements to electric plant; use old building; construction bids opened January 21, 2 P. M.; installation includes 150-horse-power reurn-tubular boiler, 120-horse-power simple engine, 180-horse-power simple engine, and 300-horse-power open heater.

Okla., Stonewall.—City awarded contract to Don A. Tolbert of Ada, Okla., to construct electric-light system. (Recently mentioned.)

S. C., Greer.—City votes February 4 or \$15,000 bond issue to construct electric-light plant; John D. Wood, Mayor.

Tehn., Dresden.—City will petition Legislature for authority to issue bonds for electric-light system. Address The Mayor.

Tenn., Ducktown.—Burra Mining Co. will build addition to power plant; install boil ers and electric generators to furnish electric underground haulage, pumping and mine lighting.

Tenn., Paris.—City contemplates voting on lond issue to extend electric-light system. Address The Mayor.

Tex., Plano,—Wilcox Light & Power Co., C. W. Potts, manager, purchased Plano Light & Power Co.'s property and contemplates constructing transmission line to Richardson, Tex.; electricity to be purchased from Texas Traction Co.

Tex., Bishop.—Bishop Water & Electric Co., capital stock \$50,000, incorporated by F. Z. Bishop, R. R. Hall and H. T. Ellsworth.

Tex. Eagle Pass.—Texas Light & Power Co., J. F. Strickland, president, Dallas, Tex., will enlarge local electric-light plant lately purchased and construct transmission line to Indio Ranch, 45 miles distant, where electricity will be used to operate pumps for irrigating 6000 acres land; also proposes to construct other transmission lines to operate irrigation pumping plants and to furnish light and power for Cometa and Carrizo Springs, Tex. (Recently mentioned.)

Tex., Houston.—Houston Lighting & Power Co, will build addition to boiler-house on Cabel St.; cost \$17,000.

Tex., Italy.—Texas Light & Power Co., J. F. Strickland, president, Dallas, Tex., purchased electric-light plant from Italy Water Co.; will enlarge and improve; secured 50-year franchise.

Tex., San Benito.—S. A. Robertson wires Manufacturers Record: "Have no electrical improvements in mind." This refers to recent report that San Benito & Rio Grande Railroad. Mr. Robertson, president, is interested in plan to install electric plant at lignite mines.

Va., Monterey. - Lunsford & Slaven will erect building 50x80 feet for power plant and garage.

W. Va., Moorefield,—City will construct electric-light plant; 59 horse-power; cost \$5000; creet power-house to cost \$2000; John J. Chipley, Mayor. (Recently noted as to yote February 1 to construct plant.)

## FERTILIZER FACTORIES

Ala., Prattville.—Dixie Fertilizer Co., capital stock \$15,000, incorporated by Daniel Pratt, C. E. Thomas, W. A. Gayle and others.

Fla., Ocala. — Blowers Lime & Phosphate

Co., A. C. Blowers, president and general manager, St. Petersburg, Fla., will erect two drykilns and hydrating plant recently noted; drykilns to be six feet in diameter and 29 feet high; machinery will include crusher with about 40 tons daily capacity, hoisting engine, etc.; product, soft shell limestone and lime. (See "Machinery Wanted.")

Ga., Devereux.—J. M. Moate has purchased machinery and erected building for fertilizer plant. (Recently noted as contemplating establishment of plant.)

#### FLOUR. FEED AND MEAL MILLS

Ark., Pine Bluff.—Westbrook Grain & Commission Co. advises Manufacturers Record as follows: Contract awarded to Kaucher, Hodges & Co., Memphis, Tenn., to erect 100x200-foot brick and reinforced concrete warehouse; in connection with warehouse will have quick handling mill and elevator; latter to have capacity 20,000 bushels; mill capacity, 1000 bags of chops daily, together with daily capacity of 10 cars grain and other products; contemplate installing meal-grinding, sacking and mixed alfaifa feed and poultry feed; also will erect barn, 1000 tons capacity; plans and specifications by Field & Sturgeon, 314 Orear-Leslie Bldg., Kansas City, Mo.; machinery purchased; operated by electricity, 75 horse-power three-phase motors; total cost of plant, \$40,000.

Ky., Clinton.—Star Milling Co., capital \$25,000, incorporated by J. U. Kevil, R. Brett, R. U. Kevil, J. R. Kevil and L. Kevil.

Tenn., Sequatchie.—Hill & Son will build feed and grist mill; ordered eight-horsepower gasoline engine, bolter, feed grinder and elevator; cement building.

## FOUNDRY AND MACHINE PLANTS

Ala., Boyles — Cast-iron Mains. — National Cast-Iron Pipe Co., A. E. Nelson, secretary-treasurer, 2111 Third Ave., Birmingham, Ala., advises as follows relative to previously-noted pipe plant: "Ready for bids on main foundry building, plans being completed, and will probably close contract between February 1 and 10; ready to let contract for commissary building, probably to local contractor; placed order for woodworking equipment; order for pumps, tanks, probably placed January 20."

Ark., Stuttgart-Machinery.—Roush-White Company, capital stock \$25,000, incorporated by H. F. Roush, S. White and O. M. Young.

Ga., Atlanta — Textile Machinery. — Yarbrough Pick Motion Co. chartered, capital stock \$20,000, by C. S. McMahan, W. R. C. Smith and Winfield P. Jones; to manufacture textile machinery.

Ky., Louisville—Flour Mill Machinery.—L. R. Veatch & Co., capital stock \$20,000, incorporated by L. R. Veatch and others; will continue plant operated by Mr. Veatch for manufacturing and repairing flour-mill machinery.

Md., Baltimore—Iron Works.—Patapsco Iron Works, 303 S. Woodyear St., purchased site at Stockholm, Wicomico and Hamburg costing about \$2500; steel frame construction; with equipment cost will be about \$5000; install electric drive; company plans locating its entire works at new site. (Recently noted as having plans for workshop.)

Md., Frederick—Iron Works.—Morris Iron Works changed name to Morris Iron & Steel Co. and increased capital stock from \$175,000 to \$375,000; will make various improvements at its plant, including installation of steel castings plant costing \$40,000. (Further particulars lately noted.)

Tenn., Nashville—Machinery, etc.—F. L. Estes & Co. applied for authority to increase capital stock from \$9000 to \$15,000; 'install additional equipment and increase variety of product manufactured.

Tex., El Paso-Rock Drills, etc.-Joseph B. Coulumbe of Keene, N. H., is considering establishment of plant to manufacture pneumatic devices, rock drills, etc.

Tex., Orange—Farming Machinery.—D. M. K. MacLeod of Lake Charles, La., is considering establishment of plant to manufacture light-weight ditcher for use on marsh and prairie lands.

Va., Roanoke.—Roanoke Bridge Co. states it does not contemplate enlarging plant at present as recently stated.

Va., Roanoke-Iron,—Roanoke Iron Works, 321 Third Ave., voted to increase capital stock from \$50,000 to \$75,000.

Va., Roanoke—Structural Steel, etc.—Virginia Bridge & Iron Co. is reported as to erect buildings, install additional steel-working machinery, etc.

W. Va., Charleston-Tools.-Ohio Tool Co.,

Columbus, O., awarded contract to C. W. McNuity of Huntington, W. Va., at about \$55,000 to build plant in South Charleston; metal, concrete and glass; site, eight acres; issued \$125,000 bonds in connection with proposed Charleston plant; plans by H. Rus Warne of Charleston. (Recently mentioned.)

#### GAS AND OIL ENTERPRISES

Ala., Jasper.—Pennsylvania Oll & Gas Co. of Alabama, P. M. Shannon, president and general manager, Du Quesne Club, Pittsburgh, Pa., states as follows relative to recently-noted.work: Lease about 200,000 acres in Walker county; completed three gas wells at depth of 1800 feet, with rock pressure of from 500 to 900 pounds; line laid to Jasper, where gas will be supplied within few days; five new wells under way.

Ark., Batavia.—Mrs. G. B. Allen of Moffatt, Col., is promoting organization of Batavia Tevelopment Co. to drill for oil on General Pass farm of 40 acres near Batavia.

Fla., Tampa.—West Tampa Gas Co., capital stock \$160,000, incorporated; subsidiary of Tampa Gas Co.; will extend mains of Tampa company; John Gribbel, president; David J. Collins, vice-president-general manager-secretary; Peoter O. Knight, treasurer.

Md., Baltimore—Gas Plant.—Consolidated Gas, Electric Light & Power Co., Lexington and Liberty Sts., holds meeting January 28 to consider increasing common stock authorized from \$8,500,000 to \$14,860,051, and to decrease preferred stock from \$6,360,054 to zero, without changing amount of capital stock now authorized to be issued and outstanding. viz., \$14,890,051.

Miss., Biloxi.—Gulf Gas Co., capital stock \$1,000,000, will be incorporated by C. B. Mc-Kinney of Biloxi, John T. Schley, C. D. Willoughby and A. L. Staples of Mobile, Ala.

Okla., Bartlesville.—Progressive Oil & Gas Co., capital stock \$6000, incorporated by C S. Leidecker, C. R. Geddes and J. M. Lei decker.

Okla., Cushing.—W. T. Fields Oil, Gas, Coal & Investment Co., capital stock \$25,000, incorporated by W. T. Fields of Guthrie, Okla.; William W. Culbertson of El Reno, Okla., and Pete Hanraty of McAlester, Okla.

Okla., Chelsea.—Bernice Oil Co., capital stock \$10,000, incorporated by A. E. Paulzer and Inex Paulzer, Chelsea; John F. Milliken, St. Louis, Mo., and E. M. Corah, Vinita, Okla.

Okla., Dustin.—Dustin Oll & Gas Co., capital steck \$100,000, incorporated by J. H. Swafford, A. G. Liston, B. E. Swafford and W. P. Snarks.

Okla., Fort Gibson.—Boudinot Oil & Gas Co., capital \$10,000, incorporated by Frank J. Boudinot, R. M. Mountcastle and Eustace A. Hill.

Okla., Guthrie.—Logan Payne Oil & Gas Co., capital \$25,000, incorporated by T. J. Woods of Oklahoma City, Okla.; Perry A. Ballard and Charles S. Olson of Guthrie, Charles S. Reed, F. E. Houghton and Arthur W. Pettitt of Coyle, Okla.

Okla., Muskogee,—Mississippi Oil & Gas Co., capital stock \$10,000, incorporated by J. E. Bramlett, Clarksdale, Miss.; C. T. Burns. Frank Stroupe and J. H. Mobley, all of Muskogee.

Okla., Oklahoma City.—Oklahoma Mutual Oil & Gas Co., capital stock \$50,000, incorporated by William Ribble, M. L. Goddard, C. F. Sioane and B. E. Burkhart,

Okla., Oklahoma City.—Western Oklahoma Oil Co., capital \$100,000, incorporated by Howard C. Tate, A. J. McCarthy and W. T. Hassett.

Okla., Oklahoma City.—Pole Creek Oll & Gas Co., capital \$25,000, incorporated by Clint C. Steinberger, K. M. Scoville and J. D. Chastain.

Okla., Oklahoma City.—Lucky Oil & Gas Co., capital stock \$16,000, incorporated by Le Roy Paddock and J. R. Keaton of Oklahoma City and W. A. Darby of Frederick. Okla.

Okla., Sulphur.—Sulphur Oil & Gas Co., capital \$25,000, incorporated by O. B. Beckham, I. C. Reufro, W. J. Williams and Ida M. Williams.

Okla., Tulsa - Oil Refinery. - Constantin Refining Co., capital \$75,000, incorporated by E. Constantin, E. W. Goebel and Melodia Constantin.

Okla., Tulsa.—Smock Oil Co., capital \$12,000, incorporated by E. E. Smock of Okmulgee, Okla.; E. A. Ross and Henry N, Greis of Tulsa.

Okla., Tulsa.—Elliott Oil Co., capital stock 815,000, incorporated by W. E. Elliott of Tulsa, George B. Rittenhouse and Emory A. Foster of Chandler, Okla. Okla., Tulsa.—Spanish Peak Oil Co., capital stock \$125,000, incorporated by W. M. Babcock and George M. Canterbury of Tulsa and R. S. Sterling of Houston, Tex.

Okla., Tulsa.—Bess Oil & Gas Co., capital steck \$10,000, incorporated by P. L. Thurman and Bess Thurman of Tulsa, and W. II. Whitford of Independence, Kans.

Okla., Wewoka.—Rock Island Oil, Gas & Eevelopment Co., capital stock \$50,000, incorporated by E. A. Ringold, R. A. Wooldridge, J. E. Dickson, Ed L. Dunn and Henry M. Scales, all of Oklahoma City, Okla.

Tex., Corpus Christi—Gas Plant.—Corpus Christi Gas Co., 766 Union Trust Bldg., Detroit, Mich., advises as follows relative to previously-noted plant: Corpus Christi Gas Co. incorporated, capital stock \$250,000, to build and operate gas and electric property president, Henry M. Wallace; vice-president, Raymond G. St. John; secretary-treasurer, Wm. T. Utley; all of Detroit; awarded contract to United Gas Improvement Co., Philadelphia, Pa., to manufacture and rect fourfoot carburetted water gas set and to Stacy Manufacturing Co., Cincinnati, O., for 100,000 cubic feet two-lift gasholder and 10,000 cubic feet relief holder; contract for over 14 miles gas mains and fittings let to Walker Manufacturing & Supply Co. of Detroit; main laying commenced; property to be owned by Henry M. Wallace Company, Detroit; Herbert L. St. John, engineer; A. L. Thormann, manager local office.

Tex., Electra.—Dale Knotts Oil Co., cap tal \$16,000, incorporated by E. A. Dale, P. I Langford, R. S. Allen and others.

Tex., Gonzales. — Coast Oil & Gas Co., capital stock \$6000, incorporated by F. D. Kokrnot. W. L. Cardian, R. S. Chambers and others.

Va., Richmond—Gas Plant.—Mr. Knowles, superintendent of gas plant, recommends appropriation of \$150,000 for improvement to gas plant; Charles E. Bolling, City Engineer.

W. Va., Charleston.—Charleston & Clendennin Oil & Gas Co., authorized capital \$25,00. incorporated by Peter Silman, Emmet Silman, Bert Silman, H. G. Davis and Berkeley Minor, Jr.

W. Va., Fairmont.—Walker-Nay Oil & Gas Co., capital stock \$25,000, incorporated by Frank Ridgley, E. T. Kelley, N. C. Steele and others.

## ICE AND COLD-STORAGE PLANTS

Fln., Jacksonville.—Florida Ice & Coal Co. will improve plant and install additional equipment; latter will include two gas compression pumps, nine-foot flywheel weighing 15,000 pounds, steam receiver and vacuum ammonia gauges, and machinery to produce 50 tons ice in 24 hours; estimated cost \$44,000; contract awarded. (Recently reported as considering increase of capital stock from \$100,000 to \$200,000.)

Fla., Live Oak.—J. G. White & Co., 43 Exchange Pl., New York, acquired ice factory; possession March 1. (See "Electric Plants.")

Fla., St. James City.—Sisal Hemp & Development Co., Lorenzo A. Wilson, Jacksonville, Fla., president, will erect 24xi2-foot fireproof building; construction by company; ordered machinery, six tons capacity; construction engineer, G. E. Conillard, Boston, Mass

Ky., Lancaster.—Biuegrass Dairy & Ice Co., H. V. Bastin, manager, awarded contract to erect five-ton ice plant, etc., recently noted. (See "Miscellaneous Factories.")

Okla., Elk City.—Elk City Ice, Fuel & Light Co., capital stock \$60,000, incorporated by W. T. Havard, A. E. Fritsch and D. M. Brenneman, all of Hobart, Okla.

Okla., Stigler.—Joseph N. Ward of Fort

Okla., Stigler.—Joseph N. Ward of Fort Smith, Ark., purchased Stigler Light & Ice Co.'s plant for \$16,000 and will rebuild.

S. C., Union.—Union Ice & Fuel Co., capital stock \$12,000, incorporated; W. H. Sartor, president; R. A. Easterling, secretarytreasurer.

Tex., Brownsville.—Consumers' Ice & Cold Storage Co., capital stock \$50,000, incorporated by G. P. Durham, V. L. Crixell, L. B. Puente and others.

Tex., Kennedy.—Mayor advises that city does not contemplate installing cold-storage plant recently noted.

## IRON AND STEEL PLANTS

Ala., Gadsden-Iron Furnace.-W. A. Bradford of 14 Wall 8t., New York, is reported as conferring with E. F. Blomeyer of Chattanooga, Tenn., general manager of Tennessee, Alabama & Georgia Railway, relative to constructing iron furnace on that railroad, probably at Gadsden. Mr. Bradford writes to Manufacturers Record: "At present impossible for me to give information."

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Tex., Port Bolivar—Iron Furnaces and Steel Plant.—Wesley Merritt, industrial commissioner of Atchison, Topeka & Santa Fe Railway System, 89 E. Jackson Blvd., Chicago, Ill., advises Manufacturers Record regarding plans for blast furnaces and steel plant; writes as follows: "This we have been actively interested in for some time in connection with development of Featherstone ironore properties in Cass, Marion and Upshur counties in northeastern Texas. First step will be to organize mining and shipping end by installation of suitable machinery and shipment of iron through Galveston Bay to Philadelphia for eastern Pennsylvania blast furnaces. General plan outlining procedure, beginning with construction of railroad and ending with finished steel products, etc., was carefully drawn up at beginning and in advance of any general expenditure beyond engineering examination of ore properties." (Plans for iron mining previously detailed.)

#### LAND DEVELOPMENTS

Ala., Birmingham.—Country Estate Land Co., capital stock \$25,000, organized; will develop 200 or 300 acres land and divide into subdivisions of from 1 to 10 acres; T. H. Wright Is president; Arlie Barber, vice president; Mant Hood, secretary; Alvin M. Fouglas, general counsel.

Ala., Carney. — Carney Land & Development Co. (recently noted incorporated, \$5000 capital stock) will develop about 10,000 or 12,000 acres near Carney; James A. Carney, president; Elliott G. Rickarby, Mobile, Ala., vice-president; W. Corbin Frank, Canton, O., secretary.

Ala., Huntsville.—Bradley & Conner purchased for \$28,000 land formerly used by Alabama Nursery Co., two miles from Huntsville; will divide into small tracts and sell to truck farmers and dairymen.

Ark., Arkadelphia.—Trustees A. W. Wilson estate sold 10 acres land for \$5000; purchasers contemplate developing for residential purposes.

Fla., Atlantic Beach. — Atlantic Seashore Co., George E. Carroll, president, Jacksonville, Fla., will develop resort at Atlantic Beach; improvements will include bulkheading along shore front, sewerage system, water-works, water to be supplied from 700-foot artesian well, electric-light or gas plant, etc.; also automobile garage and railroad station.

Fla., Jacksonville.—West Jacksonville Land Co., capital \$25,000, incorporated with Arthur T. Williams, president.

Fla., Jacksonville. — Duval Building Co., capital stock \$250,000, incorporated; John G. McGiffin, president; Stephen Chadwick, vice-president; E. W. Bailey, secretary; L. G. Hirth, treasurer, all of Fernandina, Fla.

Fla., Jacksonville.—Island View Co., Jos. II. Phillips, president, will develop 300 acres of land on St. John's River between Jacksonville and Ocean Park; cost of improvements (contracts for which have been placed), \$50,000. (Recently noted incorporated with \$50,000 capital stock.)

Fla., Kissimmee.—E. C. Chambers, general manager of Chambers Land Co., 522 Midland Bidg., Kansas City, Mo., advises further relative to recently-noted purchase of 40,000 acres adjoining Lake Kissimmee; propose to build several hundred houses on various tracts and to furnish citrus and some eucalyptus trees to purchasers of land for development; will establish townsite called "Headwater;" organizing Modern Land Co., to be incorporated with offices at 522 Midland Bidg.

Fla., Live Oak.-L. S. Howard, it is reported, will develop dairy farm near Live Oak.

Fla., Miami,—American Townsites Co. organized; capital \$15,000; president, Geo. A. Paddock; vice-president, Bartlett R. Bishop, St. Louis, Mo.; secretary-treasurer, Donald C. Caddagan; owns and will sell city lots in South Florida.

Fla., Miaml.—Ocean Beach Realty Co., J. A. McDonald, president, plans further development of its property along ocean front; will plat balance of tracts extending about one mile along water front.

Fla., Tampa.—Manatee Valley Land & Development Co., capital stock \$100,000, incorporated; Frank Bennett, president; W. A. McCord, vice-president; L. B. Schermerhorn, secretary; W. E. Shotwell, treasurer.

Fla., Tarpon Springs.—J. C. Browning of Wakefield, R. I., purchased 60 acres on Anclote River for \$12,000 and will improve; plant one acre in figs, two acres in oranges, seven acres in grapefruit and one acre in flowers and shrubbery.

Ga., Savannah.-Georgia Land & Securities

Co. purchased property 250x300 feet and will develop

Ky., Dry Ridge, — Carlsbad Springs Co., capital stock \$200,000, incorporated by J. B. Sanders of Dry Ridge, Dr. T. H. Kinnaird, R. C. Stoll, Dr. F. H. Clarke and J. R. Bush of Lexington, Ky.

Ky., Dry Ridge. — Kentucky Carlsbad Springs Co., capital \$200,000, incorporated by T. H. Kinnaird, R. C. Stoll, J. B. Sanders, F. H. Clarke and J. R. Bush.

La., Lake Charles, — Louisiana Tabasco
Pepper Co., William Swan, president, will
cultivate 100 acres of land (recently noted)
east of Lake Charles in tabasco peppers.
(See "Miscellaneous Factories.")

La., Covington. — Richard & Riggs purchased 1900 acres land between Covington and Abita Springs for \$25,000; will divide into lots, squares and five-acre farms.

La., Shreveport.—Southern Investment Co. purchased 228 acres land on Douglas Island for \$57,000; is having surveys made and will divide into one and five-acre tracts for truck farming; will be incorporated with \$40,000 capital stock and following officers:

H. Kendall, president; T. E. Bird, vice-president; E. B. Frawley, secretary-treasurer.

N. C., Charlotte.—Mercantile Development Co., capital stock \$500,000, organized by E. D. Latta and associates to improve for mercantile purposes property on S. Tryon, S. Church, Mint, W. 1st, W. 2d and W. Stonewall Sts.; plans include widening streets, extending transportation facilities, erecting business blocks, etc.

N. C., Charlotte,—Crowell Company, 200 E. Morehead St., organized with W. M. Crowell president and treasurer, J. T. A. Lawing secretary; plans no development of property recently purchased. (Lately noted incorporated with \$50,000 capital stock.)

N. C., Wilmington.—Highwood Company, H. F. Wilder, president, will increase capital stock from \$18,000 to \$50,000; proposed to make various improvements at Highwood Park—install sewerage and water systems, pave streets, lay sidewalks and plant shade and fruit trees.

Okla., Chandler.—Southwestern Development Corporation, capital \$3000, incorporated by Wilbur E. Brown and Gosche Thomsen of Oklahoma City, Okla., and others.

S. C., Charleston.—Rutledge Heights Co., capital stock \$10,000, incorporated by F. C. Peters, president; T. W. Mappus, vice-president; G. H. Momeier, secretary-treasurer, S. C., Greenville.—Mountain View Land

S. C., Greenville.—Mountain View Land Co., capital stock \$16,000, incorporated by J. Thomas Arnold, T. F. Hunt, D. B. Traxler, D. W. Ebaugh and Joseph A. McCullough.

S. C., Greenville.—Piny Mountain Land Co., capital stock \$15,000, incorporated; T. F. Hunt, president-treasurer; W. T. Henderson, vice-president; C. S. Allen, secretary

Tex., Agua Dulce.—R. II. Walker of Gonzales, Tex., purchased 1920 acres land for \$90,000; will plant cotton and corn.

Tex., Houston.—Pan-American Trust Co., \$100,000 capital, organized; mainly to develop large tracts cut-over lands in East Texas; tracts to be subdivided into 100-acre farms, with houses erected and farm equipment supplied; president, A. M. H. Stark, Orange, Tex.; vice-president, S. N. Craig, Texas City, Tex.; secretary, Geo. W. Boynton. Houston; treasurer, R. F. Butts, Houston.

Tex., Orange.—Dr. E. W. Brown and W. H. Stark purchased 8000 acres cut-over timber land for \$32,233.50, and will improve.

Tex., Port Bolivar.—Port Bolivar Development Co., capital stock \$50,000, organized for general industrial developments; purchased large tract of land; Fred M. Lege, Jr., temporary chairman; Earl Sherrard, temporary secretary; both of Galveston, Tex.

Tex., San Antonio,—Roselawn Cemetery Co., capital \$70,000, incorporated by John A. Kerr, George Bodet, C. H. Dean and others.

Tex., Victoria.—Telferner Townsite Co., capital stock \$15,000, incorporated by Harry S. Tuttle, J. H. Tuttle and H. H. Stephenson.

Tex., Waco.—Waco Cemetery Association, capital stock \$40,000, incorporated by C. J. Glover, W. M. Foster and Allan D. Sanford.

Va., Richmond.—West Chesapeake Realty Corporation, capital stock \$100,000, incorporated; W. B. West, president; J. E. West, vice-president; E. M. Robertson, secretarytreasurer.

Va. Surry County.—Alfalfa Corporation of Virginia, 623 American National Bank Bldg., Richmond, Va., Jas. E. Cuthbert, president, will develop 1400 acres on James River, In Surry county; E. Warren Ritchie, engineer in charge, Mechanics' Bldg., Petersburg, Va.; company recently noted incorporated, \$100,-000 capital stock. (See "Machinery Wanted.")

W. Va., Huntington.—Blue Sulphur Land Co., capital stock \$12,000, incorporated by L. A. Daniel, E. Johnson, A. C. Johnson, H. R. Daniel and Lace Marcum.

#### LUMBER MANUFACTURING

Ala., Mobile.-J. S. Barret Lumber Co. authorized capital \$4000, incorporated by Daniel McNeill, C. H. Barret and J. S Barret.

Ga., Atlanta.—National Logging & Lumber Co., capital stock \$290,000, incorporated by J. L. Anderson, Geo. P. Whitman and Frederick Kauffman.

Ga., Wayeross.—Enterprise Lumber Co., capital stock \$10,000, incorporated by W. D. Youmans, J. W. Bunn and P. A. Hay.

Ga., Moultrie.—Swift Lumber Co. will be incorporated by W. E. Aycock of Moultrie and Irwin W. Myers of Tifton, Ga.; lately reported to have purchased 2000 acres timber land in Thomas county, build mill with daily capacity of about 40,000 feet, and construct four-mile tramroad.

La., Monroe.—D. E. King, industrial confmissioner Missouri Pacific Railway, St. Louis, Mo., is conferring with capitalists relative to arranging to develop 75,000 acres timber land; capitalists propose to build sawmill on 50,000-acre tract and stave mill on 25,000-acre tract.

La., Thibodaux.—F. B. Williams Cypress Co., Patterson, La., advises that timber recently noted purchased, near Thibodaux, will be logged to and manufactured at Patterson mill; no further equipment needed.

Md., Baltimore,—Mann & Parker Lumber Co., capital stock \$25,000, incorporated by Stephen S. Mann (2100 Brookfield Ave.), Frank A. Parker and Morris A. Soper,

Md., Royal Oak.-Frank P. Hall will build sawmil! and cannery.

Miss., Hickory. - C. G. Wetherford will build sawmill.

Miss., Hickory.-J. N. Horne will build sawmill.

Miss., Hickory.—J. H. Raines Lumber Co contemplates building sawmili near Hickory Miss., Maxie.—Brookhaven Lumber & Man

Miss., Maxie.—Brookhaven Lumber & Manufacturing Co. of Brookhaven, Miss., purchased timber on 5000 acres land estimated at 40,000,000 feet; will develop.

Mo., Kansas City.—Penrod-Jorden-McCowen Lumber Co., capital \$135,000, incorporated by J. N. Penrod, R. L. and G. E. Jorden and I. O. Wood.

N. C., Gastonia.—J. S. and W. G. Torrence purchased about 50 acres forest pine timber land, estimated to cut 275,000 feet of lumber; will develop and use lumber for their own building purposes.

N. C., Garland.—Garland Lumber Co., capltal stock \$100,000, incorporated by L. Mc-Bryde and others.

N. C., Granite Falls,—Dudley Lumber Co. will build plant; manufacture building materials and tables,

N. C., Jacksonville.—Onslow Lumber Co., capital stock \$50,000, incorporated by Benjamin C. Currie and others of Philadelphia, Pa., and A. D. Ward of Newbern, N. C.

N. C., Newbern.—Goldsboro Lumber Co., D. W. Richardson, manager, Dover, N. C., contemplates, it is reported, building sawnill.

N. C., Scotland Neck.—Biggs & Johnson purchased 700-acre farm in Halifax county, including timber tract; will develop.

N. C., Siler City.—W. B. Cooper Lumber Co., capital stock \$50,000, incorporated by W. B. Cooper, M. S. Satterfield and N. A. Jones, Okla., Oklahoma City.—O. K. Lumber Co., capital \$5000, incorporated by J. H. Bynum, R. F. Turner, G. C. Danner, S. W. Coleman and others.

 C., Georgetown, — Alberta Timber Co. contemplates increasing capital stock from \$200,000 to \$300,000.

Tenn., Memphis.—I. M. Darnell Son Company, capital stock \$100,000, incorporated by W. S. Darnell, J. D. Allen, Jr., J. E. Cutsinger and others.

Tex., Bishop.-F. Z. Bishop Lumber Co., capital stock \$20,000, incorporated by F. Z. Bishop, R. R. Hall and E. A. Bishop.

Tex., Joaquin.—W. R. Pickering Lumber Co. of Kansas City, Mo., will build 12 drykilns, 20x120 feet, with daily capacity of 250,000 feet of boards; awarded contract to L. Moore Drykiln Co. of Jacksonville, Fia.

Tex., Nacogdoches, — Hoya Lumber Co. states it has small mill; purchased 4,690,600 feet of timber (not "50,000,000" feet as reported); will cut in one year, (Recently noted.) Va., Chester.—Wells-Davis Manufacturing Co. (recently noted incorporated at Richmond, Va., with \$25,000 capital stock), J. W, Jefferies, president, 515 American National Bank Bidg., Richmond, Va., will dress lumler, etc. (See "Woodworking Plants.")

Va., Richmond.—Jarrett Lumber Corporation increased capital stock from \$100,000 to \$200,000.

Va., Richmond.—Commonwealth Lamber Corporation, capital stock \$50,000, incorporated; G. M. Garrett, president, Cartersville, Va.; P. A. Fore, vice-president, and J. C. Jenks, secretary-treasurer, both of Richmond, Va.

#### METAL-WORKING PLANTS

Ky., Covington-Springs,—William A, Murray Spring Manufacturing Co. will rebuild plant recently damaged by fire at estimated loss of \$25,000.

Ky., Louisville—Sheet-Metal Device,—Reinforced Bar Scat Co, organized by Charles A, Koerner and others to manufacture sheetmetal device for use in reinforced concrete work; product has been manufactured at plant of Louisville Cornice & Roofing Co, and marketed by Chicago Builders' Specialties Co.

Mo., St. Louis-Metal Products.—National Sheet-Metal Manufacturing Co. incorporated by George F. Carraher, Louis J. Powers and Vincent McShane; capital stock, \$5000.

#### MINING

Ala., Guntersville—Umber and Ocher.— Southern Paint Mills, H. L. Taylor, vicepresident (interested parties all of Guntersville), contemplate renewal of development of mines; reported to erect new building near yellow ocher mine.

Ga., Macon-Bauxite. - Georgia Realty & Manufacturing Co., capital stock \$1,000,000, incorporated to mine bauxite and manufacture wood pulp.

Ky., Bowling Green. — Bowling Green & Green River Quarries Co. increased capital from \$50,000 to \$150,000.

Mo., Joplin-Lead.-Leadland Mining Co., capital stock \$40,000, incorporated by Jamot Brown of Chicago, Ill.; R. H. Barratt and others of Joplin.

Mo., Joplin-Zinc.-Zincland Mining Co., capital stock \$25,000, incorporated by Jamot Brown of Chicago, Ill.; R. H. Barratt and others of Joplin.

Mo., Webb City—Lead and Zinc.—Lawton Mining Co., C. C. Yoder, president, will deveylop 29 acres at Lawton, Kans.; office, Webb City. (Recently noted incorporated.)

Mo., Webb City,—Webb City-Lehigh Mining Co., capital \$4000, incorporated by W. C. Eldredge, W. C. Graham, J. W. Lane and D. A. Gilmore.

N. C., Stackhouse — Barytes. — Carolina Barytes Co. will rebuild burned mill.

Okla., Hattonville.—Company will be incorporated with \$10,000 capital stock by A. D. Hatten, T. F. Coyne and A. J. McIntruff, all of Webb City, Mo., and others; leased 500 acres mining land near Hattonville and will arrange for development.

S. C., Charleston—Gravel.—Pon Pon Land & Gravel Co., capital stock \$10,000, incorporated by C. D. Gadsden and G. R. Fishburne.

N. C., Charlotte—Rock.—F. S. Tucker and associates will establish rock-crushing plant with daily capacity 160 to 200 tons crushed rock and brick manufacturing plant with daily capacity about 10,000 "unit" brick; secured 135 acres land, including all of Spencer Mountain, in Gaston county; rock-crushing and brick plants to be located at Charlotte. Mr. Tucker will be general superintendent of rock-crushing plant, and Millege B. Malone, quarry foreman.

Okla., Fort Gibsen-Lime, — Grand River Lime Co., capital stock \$6500, incorporated by W. J. Doyle, W. C. Franklin and P. J. Carey, all of Muskogee, Okla.; install crushers, kilns, etc.; daily capacity, 100 barrels lime.

Tex., Alvord—Sand.—Oran Speer has begun development of sand suitable for glass manufacture; asking prices on machinery. (See "Machinery Wanted.")

Tex., Cedar Park—Limestone.—Cedar Park Stone Co., with offices at Austin, Tex., organized by G. T. Allen, Leander, Tex., and associates; Mr. Allen purchased interest of R. B. George of Houston, Tex., president of R. B. George Company, Box 721, Austin, operators of limestone quarries at Cedar Park and White Stone, Tex.

Tex., El Paso.—Southwestern Mines Co., capital stock \$30,000, incorporated by J. F. Johnston, T. D. Love and J. R. Love.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Va., Arvonia-Slate.-National Slate Corporation, \$25,000 capital stock, incorporated with George W. Kirkpatrick, president; C. M. Pitts, vice-president; Joseph Fritsch, Jr., secretary; B. A. Richards, treasurer, all of Rochester, N. Y.

#### MISCELLANEOUS CONSTRUCTION

Fia., Jacksonville—Docks.—City voted issuance of \$1,590,000 of bonds to construct municipal docks on St. John's River. Address The Mayor. (II. H. Richardson, secretary Board of Trade, previously noted interested.)

Fla., Key West-Dredging, etc.-War Department approved plans by First Lieuten ant William T. Carpenter, Constructing Quartermaster at Key West, for filling in and dredging low lands at Fort Taylor; will soon invite bids; appropriation \$50,000.

Fla., Pensacola—Coal Bunkers.—Pratt Consolidated Coal Co., Brown Marx Bldg., Birmingham, Ala., will increase facilities for handling bunker coal.

Fla., Tampa—Docks, etc.—Tampa Dock Co., capital stock \$1,000,000, incorporated to construct docks, warehouses, elevators, etc.; A. J. Knight, president and general manager; L. E. Knight, treasurer; J. C. Vinson, secretary; Mr. Knight wires Manufacturers Record: "Plans still in incipience."

La., Donaldsonville — Levee, — Lafourche Hasin Levee Board awarded contract to R. L. Stewart of Donaldsonville to construct concrete revetment on river front from Bayou Lafourche to head of Houmas St.; require 18,000 square yards concrete.

La., Westwego—Wharf.—Texas & Pacific Railway, C. H. Chamberlin, chief engineer, Dallas, Tex., will improve wharves, sheds and terminals at Westwego; probably construct 800 feet of additional wharf, cover all wharf space with fireproof sheds and convert into covered warehouse space practically all space now occupied by grain conveyors alone.

Md., Baltimore—Dredging.—Department of Public Improvements, sub-department Harbor Board, receives bids until January 29 for dredging; O. F. Lackey, Harbor Engineer; James H. Preston, president Board of Awards. (See "Machinery Wanted.")

Md., Elkton—Dredging.—Maryland Dredging & Contracting Co., 1512-1518 Fidelity Bldg., Baltimore, Md., to dredge Big and Little Elk creeks.

Miss., Greenville—Levee,—Mississippi Levee Commissioners authorized W. J. Shackelford, chief engineer, to advertise for bids for 360, 600 yards levee enlargement work on Bolivar county front at Bolivar, Catfish Point and Eutford, and to arrange to secure right of way for mud levee at Greenville, north of Main St.

Missouri – Revetment, — Government will construct about 12,000 feet standard revetment on Missouri River about 262 miles below Kansas City and 1 mile out from Mokane, Mo.; bids received until February 17; Herbert Deakyne, Major, Engineers. (See "Machinery Wanted.")

Missouri — Revetment. — Government will construct about 12,000 feet standard revetment on Missouri River about 302 miles below Kansas City, 2 miles below Bernheimer, and 2 miles above New Haven, Mo.; bids received until February 17; Herbert Deakyne, Major, Engineers. (See "Machinery Wanted.")

Tenn., Nashville.—Government awarded contract to Foster-Creighton-Gould Company of Nashville, at about \$200,000, to build Lock D on Cumberland River, 105 miles below Nashville; concrete construction; requires 20,000 square yards concrete.

## MISCELLANEOUS ENTERPRISES

Ark., Little Rock-Construction.-Pulaski Construction Co., capital stock \$10,000, incorporated; Harry Auten, president; F. Auten, treasurer; E. L. Endicott, secretary.

Ark., Pine Bluff-Grain Elevator.—Westbrook Grain & Commission Co. awarded contract to erect grain elevator, warehouse, etc., recently noted; capacity, 20,000 bushels of grain. (See "Flour, Feed and Meal Mills.")

Fia., Daytona—Navigation.—McCoy Bros Indian River Navigation Co., capital stock \$50,000, incorporated; Benjamin F. McCoy, president: Mary E. McCoy, vice-president; William F. McCoy, secretary-treasurer.

Fla., Jacksonville - Printing.-Hall Bros. Printing Co., capital stock \$10,000, incorporated; W. M. Hall, president; C. L. Hall, secretary-treasurer.

Fla., Miami.—Biscayne Construction Co., 10 Bank of Bay of Biscayne Bldg. (previously noted Incorporated with \$50,000 capital stock), will conduct general contracting business; A. K. Smith, president and treasurer; W. Frank Blanton, secretary.

Fla., Punta Gorda—Naval Stores.—Punta Gorda Naval Stores Co., capital stock \$550. 000, incorporated with C. M. Carrier, president.

Fla., Tampa — Marine Railway. — Tampa Foundry & Machine Co. will install marine railway; about 3000 tons capacity; estimated cost \$150,000; site one-quarter mile on turning basin at mouth of estuary; contractors, H. J. Crandall & Son of Boston, Mass.

Ga., Atlanta-Tile Contracting, etc.-Mion Bros., Luckie St., \$5000 capital stock, incorporated by P. and N. P. Mion; to contract installation of tile, etc.

Ga., Dahlonega — Transportation.— Dahlonega & Gainesville Transportation Co. (recently reported incorporated by G. R. Glenn and others) will construct concrete road for passenger cars and freight trucks from Dahlonega to Gainesville, Ga.; estimated cost \$80,000.

Ga., Rome—Contracting.—Rome Building Co., capital stock \$10,000, incorporated by L. A. Dean, J. M. Hunt and S. S. Dean.

Ky., Louisville — Contracting. — Sam H Stone Building Co., capital stock \$15,000, incorporated by Sam H. Stone, E. R. Schmitt and Everett W. Roe.

La., New Orleans—Steamship Line,—American Creosote Works Steamship Co., capital stock \$1,000,000, incorporated by Edwin L. Powell (vice-president American Creosote Works), J. W. Strong (Monteleone Hotel) and Alexander Kent of Havana, Cuba; will operate freight steamships between New Orleans and Cuban ports.

Md., Baitimore—Engineering and Contract ing.—Ealtimore Engineering Co., 695 Phoenin Bidg., capital stock \$25,000, incorporated George B. Roberts, president; Thos. N. Whedbee, secretary; engineers and contractors.

Md., Frederick—Abattoir. — Frederick City Abattoir Co, will increase capital stock from \$65,000 to \$400,000.

Mo., Kansas City — Paving. — Southwest Missouri Paving Co., capital \$3000, incorporated by Carrie, Stella, R. J. and W. M. Boyd.

Mo., Kansas City—Incinerator. — Hospital and Health Board will soon invite bids for building garbage and refuse incinerator with daily capacity 75 tons; cost not to exceed \$50,000; Henry L. Jost, Mayor. (City recently reported to have voted \$500,000 bond issue to purchase sites and build garbage-disposal plants.)

Mo., St. Louis—Shoe Supplies.—W. A. Rife Supply Co. incorporated by William Emery, Hiram A. Higgins, Edward V. Selorwy and William A. Rife.

Mo., St. Louis—Street Sprinkling.—Aqua Contracting Co., capital stock \$100,000, incorporated; secured contracts to sprinkle streets in 10 districts; J. Arthur Christopherpresident; Louis J. Nicolaus, vice-president; Henry Ziegenhein, secretary.

Mo., 8t. Louis—Contracting.—James Stewart & Co. (recently noted incorporated, capital stock \$3,759,000) advise as follows: Main office, 30 Church St., New York; A. M. Stewart, president; J. C. Stewart, vice-president; H. W. Lohman, second vice-president; Chas. F. Franson, third vice-president; J. B. A. Fosburgh, secretary; Wm. A. Rowan, treasurer; to have branch offices in Pittsburgh, Chicago, 8t. Louis, Salt Lake City, New Orleans and Houston, and conduct business formerly conducted by partnership.

N. C., Raleigh—Publishing.—State Journal Co., capital stock \$50,000, incorporated by R. F. Beasley, A. J. Felld and W. F. Marshall.

N. C., Wilmington-Builders' Supplies.— Builders' Supply Co., capital stock \$125,000, incorporated; occupy Carolina Rice Mill building on Chestnut St.; Edgar L. Hinton, president-treasurer; W. O. Morris, general manager.

S. C., Laurens-Hardware.-Brooks Hardware Co., capital stock \$15,000, incorporated by Charles F. Brooks, L. R. Brooks and W. E. Gray.

Tenn., Memphis—Printing.—Memphis Linotype Printing & Publishing Co., capital stock \$50,000, incorporated by Dan Wolf, F. W. Borsch, P. L. Brent and others.

Tex., Bartlett.—Stokes-Blair Hardware Co., capital stock \$50,000, incorporated by W. L. Stokes, W. F. Blair, C. M. Gillespie and others.

Tex., Midway—Dairy Barn.—Donnell Creamery Co., J. R. Donnell, general manager, Belton, Tex., will erect dairy barn, 80x80 feet; concrete floors; cost \$2500; also erect five-room-and-bath bungalow and two concrete silos 16x32 feet; contract for bungalow awarded to J. M. Scott, Belton; balance of

work day labor; machinery purchased. (Recently noted at Temple, Tex., as to increase capital stock to \$25,000.)

Tex., Wichita Falls - Publishing. - Great Eastern Publishing Co., capital stock \$5000, incorporated by P. H. Pennington, P. P. Langford and Charles Hill.

Va., Richmond — Publishing.—Local Law Books Co., capital stock \$50,000, incorporated; James R. Sheppard, Jr., president; J. Aubrey Saunders, vice-president; R. Grayson Dashiell, secretary-treasurer.

#### MISCELLANEOUS FACTORIES

Ala., Birmingham—Mattresses.—Perfection Mattress Co. awarded contract to Frank H. Conner to erect addition to factory; plans by Miller & Martin, Title Guarantee Bldg., Birmingham.

Ala., Chase—Lime.—Lime Products Co., capital stock \$9000, incorporated by Herbert S. Chase and others.

Fla., Live Oak—Syrup Refinery.—Geo. H. Davis and associates will erect syrup refinery.

Fla., Ocala—Turpentine.—Hail Turpentine & Investment Co., capital stock \$50,000, incorporated with R. S. Hall, president.

Fla., St. Petersburg.—Noel A. Mitchell is not interested in establishment of bakery; is interested in a bank. (Recent report incorrect.)

Ga., Cave Springs—Window Screens, etc.—
Cave Springs Planing Mill will erect onestory fireproof building; 60x80 feet; probably concrete blocks; concrete floor; has 15
woodworking machines; desire to correspond
with firms who will furnish designs, build
and place machinery to best advantage;
building to have number of sliding doors
and tram track to pass through building;
wants building to have as much light as
possible. (See "Machinery Wanted.")

Ga., Macon-Wood Pulp.-Georgia Realty & Manufacturing Co., capital stock \$1,000,000, incorporated to manufacture wood pulp and mine bauxite.

Ga., Milledgeville—Bottling.—Milledgeville Coca-Cola Bottling Co., capital stock \$4000, incorporated by Herbert F. Haley of Macon, J. T. Lupton of Chattanooga, Tenn., and others; main office Macon, Ga.

Ga., Sandersville — Bottling.— Sandersville Coca-Cola Bottling Co., capital stock \$5000, incorporated by Herbert F. Haley of Macon, J. T. Lupton of Chattanooga, Tenn., and others; main office in Macon, Ga.

Ky., Lancaster—Ice-cream, etc.—Blue Grass Dairy & Ice Co., H. V. Bastin, manager, awarded contract to O. H. Vanhook, Lancaster, to erect building to contain Ice-cream factory, bottling plant and five-ton ice plant; 30x50 feet; ordinary construction; machinery purchased; daily capacity, 200 gallons ice-cream and 1800 dozen bottles carbonated waters. (Recently noted incorporated with \$10,000 capital stock.)

Ky., Louisville—Candy.—Clarke Candy Co., capital stock \$5000, incorporated by C. A. Ray, Sr., N. H. Clarke, J. J. Schwab and others.

Ky., Louisville—Tobacco.—Alexander Tobacco Co., capital stock \$30,000, incorporated by Emile Anderson, Lyn Alexander, William Pinniger and Charles H. Pierson.

Ky., Louisville—Tires.—Speedway Tyre Co., Realty Bidg. (recently noted incorporated with \$250,000 capital stock to build fire factory), states buildings are fireproof and under contract with Falls City Construction Co. of Louisville. H. L. Lewman of latter company is president of Speedway company; L. D. Lewman, vice-president; Fred Haupt, second vice-president; F. L. Koontz, secretary; W. N. Cox, treasurer; G. W. Green, manager.

La.. Baton Rouge—Lubricants.—Standard Oil Co. will, it is reported, build lubricant factory.

La., Baton Rouge—Bottling.—Baton Rouge Coca-Cola Co. will build plant.

La., Bogalusa-Turpentine. — Union Naval Stores Co., W. J. L'Engle, president, New Orleans, La., states plant recently noted to be built is small plant, located near Bogalusa, and is being installed for experimental

La., Braithwaite—Paper.—Louisiana Pulp & Paper Co., 1404 Whitney-Central Bidg., New Orleans, La., incorporated with \$150,000 capital stock; advises will rebuild and operate Braithwaite Paper Mill; contemplates Immediate expenditure of \$100,000 on additions and improvements (paper-making machinery only); operation about July 1 with daily capacity 50,000 pounds; probably wrapping paper; Chas. F. Hubbs, president; Newton R. Wilson, vice-president; Edward G. Goodell, secretary-treasurer.

La., Lake Charles-Pepper Sauce.—Louisiana Tabasco Pepper Co. organized with William Swan, president; H. G. Ehrman, vice-president; H. F. Ehrman, secretarytreasurer; will cultivate 100 acres in tabasco peppers; erect laboratory and packing-house; cost \$3000 to \$4000. (Recently noted incorporated with \$10,000 capital stock.)

La., New Orleans—Alcohol.—Southern Alcohol Co. will enlarge and improve plant; estimated cost \$5130.

La., Shreveport-Rail Joints.-Odell Continuous Rail Joint Co., capital stock \$100,-000, incorporated; Dr. E. L. Beck, president; E. F. Odell, vice-president; Roy Ball, treasurer.

Md., Baltimore—Printing Ink.—Magnetic Pigment Printing Ink Co., capital stock \$20,000, incorporated by Peter Fireman, Harold B. Stabler, Paul S. Kaplan, Albert B. Hoen and Ernest W. Cruikshank; will continue Magnetic Pigment Co., Harford Rd. and B. & O. R. R.

Md., Baltimore—Brewery.—Christian Moerlein Brewing Co., Howard and Cross Sts., awarded contract to Consolidated Engineering Co., Emerson Tower Bidg., Baltimore, to build addition to bottling works; one story; brick; 60x20 feet; slag roof; steam heat. (Recently mentioned.)

Md., Baltimore -- Valves. -- Self-Operating Valve Co., capital stock \$300,000, incorporated by David C. McGraw (4816 Pimlico Bivd.), Daniel E. Shay and Charles F. Yaeger.

Md., Baltimore—Valves.—F. F. Rob Flushing Valve Co., capital stock \$5000, incorporated to manufacture tollet and urinal flushing valves, by Ferdinand F. Rob, Thomas B. Cooper and Harry B. Joyce, 415 E. 25th St. North.

Md., Baltimore—Shoes.—Ideal Shoe Manufacturing Co. increased capital stock from \$25,000 to \$50,000.

Md., Baltimore—Safety Mattresses.— Universal Safety Mattress Co., recently reported incorporated with \$10,000 capital stock to manufacture safety mattresses, increased capital stock from \$10,000 to \$100,000. Address S. Preston Edmonds, Merchants' National Bank Bldg.

Md., Baltimore—Picture Frames and Novelties.—Eli White leased three-story building at 7 S. Eutaw St.; will remodel and equip to manufacture picture frames and novelties.

Md., Easton-Underwear.-Delmarvia Manufacturing Co. of Smyrna, Del., will install equipment in leased plant of Easton Shirt Manufacturing Co.

Md., Hagerstown-Bakery,-W. R. Caskey, proprietor Caskey's Steam Bakery, Martinslurg, W. Va., will build bread bakery.

Miss., Louisville - Creosoting. - American Creosote Co., E. L. Powell, manager, Sta-tion "B," New Orleans, La., will establish tion "B," creosoting plant; to include cylinder-house 30x225 feet, boiler-house 40x60 feet, toolhouse 30x225 feet, boiler-house 40x60 feet, toolhouse 20x30 feet, and two-story office building corrugated-iron and concrete construction : odson W. Simmons, engineer in charge; al address, Box 186; machinery (purlocal address, Box 186; machinery (p chased) consists of cylinder 9x194 feet, steel; two 150-horse-power s; two pressure pumps, 16 tubular boiler boilers; two pressure pumps, 16x10½x12; vacuum pump, 14x20x24; two air compressors, 14x16, and two feed pumps, 12x10x12; product, full cell and rueping process, 150,000 feet daily capacity; provision now being made for additional cylinder same size as one mentioned, four storage tanks, one 25x25, ne 36x30, and two 50x30. (Previously noted.)

Mo., Joplin-Brooms,-J. W. Wren contemplates enlarging broom factory.

Mo., St. Louis—Bakery.—Kroger Grocery & Baking Co. will build bakery at 3849 Vista St.; one story; cost \$14,000.

Mo., St. Louis—Labels.—Koelle-Mueller Co. incorporated by Oscar C. Koelle, Arthur E. and Rudolph A. Mueller; capital stock, \$17.500

Mo., St. Louis—Raincoats.—British-American Rubber Co., capital stock \$50,000, incorporated by Joseph N. Rousseau, Gerard N. Allen, J. H. Gundlach, William H. Schewe and others; will rent or lease loft and equip for manufacturing rubberized rain garments.

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Mo., St. Louis—Oil-Burning Device.—Oil-Fuel Equipment Co., A. O. Krieger, president, Victoria Bidg., 8th and Locust Sts., owner of Tacchelia oil-burning device, states has not decided on location of proposed manufacturing plant.

Mo., St. Louis-Tires, etc.-Pioneer Steel Block Tire Co. incorporated by J. George Ganahl, Fred A. Gerber, William D. Becker, Fred W. Karches and Nicholas Le Brun: manufacture automobiles, tires, roller systems, etc.; capital stock \$25,090.

Mo., St. Louis-Blaugas.-W. H. Loomis

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1r., secretary Southwestern Blaugas Co., 619 Commerce Bldg., Kansas City, Mo., state that Mississippi Valley Blaugas Co. of St Louis (recently noted incorporated with \$2,900,000 capital stock by Theodore Gary, Macon, Mo., and others) will be similar to Kansas City plant and that some parties interested in latter plant will be interested, in ame capacities, with St. Louis company

Mo., St. Louis-Shoe Polish,-Herriott Sho Polish Co., 2801 N. Broadway (recently noted incorporated) changed name, but has same organization; will continue established busi-

Mo., St. Louis-Inhalers, etc.-Fronto Man noted incorporated, \$50,000 capital stock), will manufacture inhalers, surgical and other instruments at A. Wissler Instrument Works, Leader Bldg.; Dr. David Davieson, president of Pronto company; John M. Kreider, vice-president and treasurer; Hec-tor McRae, secretary and manager.

N. C., Hickory-Overalls.-J. D. Elliot and Frank Henderson of Hickory, J. W. Harts-field of Wake Forrest, N. C., will establish overall and shirt factory.

N. C., High Point,-High Point Manufac turing Co. (recent) wood specialties, Plants,") cently noted) manufactures ties, (See "Woodworking

-Lime.-Grand River Lin Okla., Muskogeo Co., capital \$6500, incorporated by W. J. Doyle, P. T. Carey and W. C. Franklin.

Winston-Salem-Clothing .- British Woolen Mills will install equipment for cloth-ing factory on second and third floors of building now occupied by branch office on 4th St.; 5000 square feet floor space.

Okla., Grandfield - Saddlery. - Grandfield Saddlery Co., capital stock \$10,000, incorpo G. P. Brown, R. L. Winchell and

Okla., Oklahoma City.-Morrison Manufac turing Co., capital stock #3000, incorporated by E. W. Dawson, A. L. Morrison, Charles McQuilty and C. D. Wallace.

Okla., Oklahoma City-Electric Alarms Electric Call & Alarm Co., capital stock \$100, 000, incorporated by P. A. Huddleson, D. M 000, incorporated by P. A. H Huddleston and A. L. Davis.

8. C., Autun.—Pendleton Manufacturing Co., capital \$125,000, incorporated by E. M. Sitton, B. M. Aull and Mrs. Cema Chreitz-

S. C., Mullins-Tobacco,-Imperial Tobacco Co. contemplates building addition and making other improvements to plant; increase daily capacity from 40,000 to about 100,000 ds tobacco; estimated cost of annex,

Tenn., Chattanooga—Gas Tips, etc.—American Lava Co. increased capital stock from \$20,000 to \$55,000.

Tenn., Morristown.-R. H. Sheldon, repenting Burnap Building Supply Co. of ledo, O., is promoting organization of com-pany with \$7000 capital stock to establish creamery; brick building; self-refrigerating plant; churn to have capacity of 900 pounds

Tenn., Springfield .- Dr. C. B. Woodard and associates will organize company with \$200. 000 capital stock to manufacture patented

oo capital stock to manufacture patented safety exit door.

Tex., Bronwnwood—Mattresses.—Sanitary Bedding & Fixture Co. of Fort Worth, Tex., will establish factory; daily capacity. To mattresses; J. A. Cameron of Fort Worth, Tex., is manager.

Tex., Dallas-Musical Instruments.—Automatic Music Manufacturing Co. organized with W. J. Glynn, president; J. E. Weeden, vice-president; C. Lamar, secretary; Oral C. White, treasurer; will continue established plant at 1007-1009 Commerce St. (Recently noted incorporated with \$50,000 capically acted to the control of the complex part of the control o cently noted incorporated with \$50,000 capi-

Tex., Dallas—Bags and Paper.—Gulf Bags & Paper Co., John A. Fisher, president (recently noted incorporated, \$50,000 capital stock, to continue established plant), states is successor to John A. Fisher Company and Hockemyer & Fisher Company, formerly of Dallas, Tex.

Tex., Denton-Brooms.—George E. Court-ney of Haskell, Tex., will, it is reported, establish plant; daily capacity, 1000 brooms.

Tex., Fort Worth — Watches. — American Watch Improvement Co., capital stock \$25,000, incorporated by Adolph Friedman, O. P. Haney and Rufus Coy.

Tex., Kingsville — Dairy Products.—Dairy Products Co., capital \$3500, incorporated by W. H. Beck, J. D. Finnegan, E. W. House and others.

Tex., Lacoste-Bottling.-Miller & Scheuhle of Hondo, Tex., will erect brick building to be equipped as bottling works.

Tex., Sinton-Bakery. - W. E. Payne will

erect two-story building to be equipped as

Va., Lynchburg - Shoes. - Craddock-Terry Company increased capital stock from \$1,500,000 to \$2,500,000; contemplates increasing shoot manufacturing facilities; writes to Manufac-turers Record: "Our complete plans are not

Va., Lynchburg—Tobacco.—Tobacco Products Corporation, Joseph C. Taylor, vice-president, Richmond, Va., acquired Booker Tobacco Co.'s plant for \$250,000 in cash; reported to increase capacity. Daniel R. G. Reid of New York is president of Tolacco Products Corporation. (Details of organization of Tobacco Products Corporation pre viously noted.)

Tex., Mt. Pleasant.-Libby Manufacturing o., capital stock \$50,000, incorporated by C. Libby, W. H. Seay and T. M. Fleming.

Va., Danville—Braces, etc.—Williford Man-ufacturing Co. incorporated by W. W. Up-church, John F. Rison, R. L. Dibrell, Malcolm K. Harris and others.

Va., Norfelk - Paper. - Fox Paper Co. Lockland, O., contemplates establishing plant Va., Petersburg-Patents.-Brown Patents

Co., capital stock \$25,000, incorp. Clark J. Brown, president; W. Y. Burge, vice-president; Carl B. Brown, secretary.

Va., Roanoke-Overalls.-Roanoke Overalls increased capital stock from \$25,000 to \$50,000.

Va., Richmond-Tar.-Administrative Board is considering establishment of tar plant to be sufficiently large to utilize by-products derived from manufacture of gas; Charles E. Bolling, City Engineer,

Va., Staunton-Brewery.-Portner Brewing Co., Andrew Bell, manager, will improve plant; place cement floor over entire build-ing, install carbonator in bottling plant and cover entire bottling works with screens; awarded contract for cement work to Will-iam Larner & Co. of Staunton.

#### MOTORS AND GARAGES

Ark., Little Rock - Garage. - Charles E Shoemaker purchased site 40x140 feet for \$6500 and will erect brick building to be equipped as garage; estimated cost, \$15,000.

Ga., Washington - Garage. - R. A. Alman stories: 40x140 feet: brick.

Louisville - Automobiles. Auto Co., G. A. Dunham, president (recently noted incorporated, \$25,000 capital stock), will deal in motor cars.

Mo., St. Louis-Automobiles.—Patterson-Abrama Automobile Co. incorporated by Wil-liam L. Patterson, Robert Abrams, Wayne J. Stedelin and Morris Tucker; capital

St. Louis-Automobiles,-Coller-Reitz Motor Car Co., capital stock \$5000, inc rated by Anthony Coller, Frank G. Reitz and Edwin Odlendorph.

Tex., Houston-Garage.—Dr. J. M. Blair's garage will be one-story structure; 129x159 feet; ordinary construction; plans by O. H. P. Rusesill & Son, 508½ Travis St., Houston; day labor. (Recently noted to cost \$8000.)

Va., Rosslyn-Automobiles.-District Automobile Service Co., capital stock \$50,000, incorporated; George R. Cowie, president Edmund S. Wolfe, secretary-treasurer.

Va., Monterey-Garage.-Lunsford & Slaven will erect building 50x80 feet for garage and

## RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

La., Shreveport. — Houston & Shreveport Branch of Southern Pacific Railway Co., A V. Kellogg, engineer of maintenance and ways, Houston, Tex., authorized, it is re-ported, expenditure of \$20,000 for improvements to roundhouse and terminals.

Muskogee.-Missouri, Okiahoma Gulf Railway, J. W. Dawson, engineer main tenance of way, will increase facilities for repairing equipment, expending ultimately \$300,000 and \$150,000 in near future; plans to \$300,000 and \$150,000 in near future; plans to erect machine shop; power plant; carpenter shop; freight car repair shop (left center), 50x200 feet; passenger car paint and repair shop; store, 40x100 feet; office, 25x50 feet; engine-house, 95x220 feet; sandhouse, 15x25 feet; coal station, 200 tons capacity; storage bins, transfer table and cinder pits; machine shop, power plant, carpenter shop freight car repair shop and carpenter shop, freight car repair shop and temporary office and storehouse will be built first and other structures from time to time as present temporary quarters become inade-quate; s. . . will be located on site 2000x435

S. C. Greenville.-Piedmont & Northern

Railway, Thomas B. Lee, chief engineer, Charlotte, N. C., awarded contract at \$40,000 to Wilkerson-Mofilt Construction Co. of Durham, N. C., to build roundhouses and machine shops for entire system of Greenville, Anderson and Spartanburg division; two buildings on forms to be the state of t two buildings, one for car barn and other for shops; former 66x200 feet, and latter 65x126 feet; both of brick; one story; steel roofs; machinery, electrically operated; install electric crane for lifting cars and elec-tric locomotives. (Recently mentioned.)

Tex., Port Bolivar.-Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex., will alter lumber skidway, expending \$7000 to \$8000; changes will consist eliminating steep slant toward water's edge and making structure level with tracks

Va., Munden.-Norfolk Southern Railrond, F. L. Nicholson, chief engineer, Norfolk Va., will build shops and roundhouses; site 40 acres; 40 spur tracks for moving building material: reported cost, \$500,000.

#### ROAD AND STREET WORK

Ala., Birmingham.—Jefferson county will cover 15 miles of macadamized roads with asphalt binder or covering to prevent mud or dust; estimated cost \$20,000; Board of Revenue invites bids; improve following roads: Six miles on Mount Pinson Rd., three pulse from Adamyrilla to Pract Chris three miles from Adamsville, to Pratt City three miles on North Bessemer Rd., and three miles on Possum Valley Rd.

Ala., Pell City.—State Aid Highway Commission, W. S. Keller, engineer, Montgomery, Ala., authorized appropriation for construction of road from Pell City to Easonville estimated cost, \$10,000.

Ark., Little Rock. - Street Improven District No. 218 (Thaver Ave. from the District No. 218 (Thayer Ave., from Rock Island right of way to 12th St.) will grade drain, curb, gutter and pave with macadan or other material; proposals addressed to Gus K. Jones, chairman, received until 2 P. M. January 4; Ford & MacCrea, engleers. (See "Machinery Wanted.")

Ala., Wetumpka.-Elmore County Commis-ioners will grade, drain and gravel on stoners will grade, drain and gravel one mile and grade and drain four miles of Tus-caloosa Rd.; expenditure, \$5000; bids re-ceived until 12 noon February 17; W. S. Keller, State highway engineer. (See "Ma-chinery Wanted.")

D. C., Washington.-District of Columbia will grade certain streets aggregating about 47,000 cubic yards; Commissioners receive bids until January 27. (See "Machinery

Fla., Anna Maria.—Town awarded contract o R. L. Davis of Tampa, Fla., to construct bout 50,000 square feet of cement sidewalks.

Fin., Tallahassee.—City will vote in April on \$40,000 bond issue to pave portion of Adams and other streets, and to extend water mains to northwest section of city. Address The Mayor.

Ga., Dahlonega. --Dahlonega & Gainesville Transportation Co. (G. R. Glenn and others) will construct concrete road for motor passenger cars and freight trucks from Dahlo ega to Gainesville, Ga.; estimated cos 0. (See "Miscellaneous Enterprises."

Ky., Dayton.—City is arranging for \$20,000 bond issue to repaye Fairfield Ave. with vitrified brick. Address The Mayor.

Ky., Louisville.—City will contract for street, alley and sidewalk construction aggre-gating \$263,000; seven lettings; Board of Public Works, City Hall, receives bids until February 11; David R. Lyman, City Engi-

will construct Oak Villa highway tending southeasterly from Baton Rougravel; length 16 miles. Address Po Jury.

La., Gueydan.-City will construct shell pavement to thickness of from four to six inches; cost \$2000; day labor; O. M. Jones, Mayor. (Recently noted.)

to grade and improve Town Clerk. La., Melville.—Town will appropriate \$5000 o grade and improve streets. Address

Town Clerk.

La., Many.—Sabine Parish Police Jury authorized W. E. Atkinson, State Highway Engineer, New Orleans, La., to advertise for bids for road construction in Section No. I, extending from Many northeast to Natchitoches parish line: sand clay; 12 miles; estimated cost, \$20,000; \$25,000 of required \$40,000 is available to construct District No. 2 of road project; improvement to comprise 20 miles, extending from Many north to De Soto parish line through Sodus, La.

La., Monroe.-Commissioners Road District of Ouachita parish will vote on \$200,000 to \$250,000 bond issue to construct about 100 miles of roads; gravel; width 36 feet; crown of 24 feet; culverts and ditches on either side of road to provide drainage; W. E. At-kinson, State Highway Engineer, New Or-

Miss., Bay St. Louis.-Hancock county contemplates issuance of \$50,000 of bonds (to be sold February 3) for completion of road and oridge construction; all machinery, etc., supplied.

Miss., Hazlehurst.-First District of Coplah county votes February 1 on \$75,000 bond issue for road construction. Address County

Miss., Indianola.-Sunflower County Co missioners will issue \$55,000 of bonds for rond improvements in Districts Nos. 2 and 5.

Miss., Liberty.-Third Supervisors' District of Amite county defeated \$80,000 bond issu road construction. Address Comissioners. (Recently mentioned.)

Miss., Poplarville.—H. K. Rouse, clerk, states that recently-noted bond issue for road construction in Beat No. I, Pearl River county, is not yet authorized; election

Mo., Maplewood.-City will pave sidewalks: cost about \$15,000; opens bids January 28. Address The Mayor.

Mo., St. Louis.-City will expend total of \$379.645 to improve streets, of which \$62,120 will be expended for asphalt, \$23,233 for bitulithic, \$1560 for Telford-oil treatment and \$292,721 for brick paving; Board of Public Improvements receives bids until February 11.

N. C., Oxford,-City contemplates issuing bonds to improve streets; proposed to expend \$5000 a year for two years. D. G. Brum mitt, Mayor, states probably nothing defi-nite before April or May,

S. C., Spartanburg.-City awarded contract to Rose & Kerline of Atlanta, Ga., for ce-ment sidewalk paving: 8 miles; main walks 4 inches thick, driveways 6 inches thick, and street crossings 8 inches thick; require 50 carloads crushed stone and 4000 barrels ce-ment; estimated cost, \$35,000 to \$40,000; J. H. Sbores, superintendent of streets. (Call for bids lately noted.)

Tenn., Milan.-City will petition Legisla ture for authority to issue bonds to gravel streets. Address The Mayor.

Tenn., Lonsdale, R. Station Knoxville,— City will petition Legislature for authority to issue \$50,000 of bonds to improve streets, pave sidewalks, lay water mains, rebuild city jail, etc. Address The Mayor. (Bond issue increased from amount lately stated.) Tex., Cleburne.—City plans election to vote on about \$350,000 bond issue for street

aving, sewers, schools, etc. Address The

Tex., Crystal City.—City voted \$6500 bond issue to improve streets; W. B. Guilledean, Mayor. (Recently mentioned.)

Tex., El Paso,-City contemplates expend-ing \$113,284.26 for street paving. Address The Mayor.

Tex., Groveton.-Trinity county voted \$60, 000 bond issue for road construction in Dis-trict No. 1. Address County Commissioners.

Tex., Hearne—Hearne Precinct, Robertson County, will construct 60 miles of gravel and sand-clay ronds; bids opened February 11; W. H. Ely, official in charge; recently noted as to vote January 21 on bond issue to con-struct roads. (See "Machinery Wanted")

Tex., Eagle Pass.-City contemplates paying square; P. P. Putney, Mayor.

Tex., Houston.—Harris county votes February 20 on \$1,000,000 bond issue to improve paved roads and extend system to adjoining county lines; also construct and improve bridges. Address County Commissioners. (Recently mentioned.)

Tex., San Angelo.-City awarded contract to Moxeley & Co. of Sweetwater, Tex., for 40,000 square yards pavement; asphalt on nerete hase

Tex., Temple,-City will vote on \$75,000 bond for street paving. W. E. Dozler, City Engineer

## SEWER CONSTRUCTION

Fla., Arcadia.-City awarded contract to learcy Construction Co. of Greenville, Ala., at \$7224 to construct sewer system; 15:00 feet 15-inch pipe, 1000 feet 12-inch pipe, 4200 feet 10-inch pipe and 19,000 feet 8-inch pipe, 64 and 10 flush tanks. (Call for bids

Fla., Lakeland.-City will construct rage-disposal plant, little Fla., Lakeland.—City will construct sow-crage-disposal plant; bids received until January 25 for materials and labor; C. G. Hemminger, chairman Board of Bond Trus-tees. (See "Machinery Wanted.")

Miami. - Ocean Beach Realty awarded contract to Biscayne Construction Co., 10 Bank of Bay of Biscayne Bldg., Miami, for sewer construction; work commenced.

Fia., Tampa.—Board of Public Works ordered preparation of plans and specifications for storm sewer system to drain section of Hyde Park; estimated cost \$40,000.

Mo., Maplewood.—City will construct sewers; cost \$15,000; open bids February 11. Address The Mayor.

N. C., Wilmington.—City awarded contract to Martin & Miller of Passaic, N. J., at \$134,495,80 to construct about 36 miles vitrified, concrete and cast-iron sewers, 8 to 24 inches diameter, complete, with appurtenances; F. F. Pillett, City Engineer. (Call for bids lately noted.)

Okla., Durant.—City contemplates voting on bond issue for extension to sanitary sewer system, etc.; W. P. Danford, engiueer; A. Neely, Mayor. (See "Water-works.")

S. C., Greer.—City votes February 4 on \$17,000 bond Issue to construct sewer system; John D. Wood, Mayor.

S. C., Mullins.—Todn contemplates voting on \$60,000 bond issue to construct sewer system and water-works. Address The Mayor.

S. C., Spartanburg.—City awarded contract to Berghaus & Fairy of Orangeburg, S. C., to construct sewers; estimated cost, \$20,000; J. II. Shores, superintendent of streets. (Call for bids lately noted.)

Tenn., Paris.—City contemplates voting on bond issue to construct sewer system costing \$35,000. Address The Mayor.

Tex., Austin.—City voted \$100,000 bond issue to purchase Austin Sewerage Co.'s system. Address The Mayor. (Recently mentioned.)

Tex., Cleburne.—City plans election to vote on about \$350,000 bond issue for sewers, street paying, school buildings, etc. Address The Mayor.

Tex., Dallas.—James H. Fuertes, hydraulic engineer, 140 Nassau St., New York, announced details of plans for sewage-disposal plant; present flow of outfall sewers is about 8,000,000 gallons daily, but plans provide for plant with maximum capacity of 35,000,000 gallons. (Mr. Fuertes previously noted as being engaged to prepare plans.)

Tex. Eagle Lake.—City Council is considering granting of franchise to company for construction of sewer system. Address The Mayor.

Tex., Pecos.—City votes January 21, it is reported, on \$35,000 bond issue to construct sewer system. Address The Mayor.

Tex., San Angelo.—City awarded contract to Smith & Phillips of San Angelo to construct storm sewers in business section; cost about \$4000.

Tex., Temple.—City Council adopted proposal of Burns & McDonald of Kansas City, Mo., to furnish appraisal of value of Temple Sanitary Sewer Co.'s system, which city contemplates purchasing, and in event latter does not eventuate, to furnish estimates for building new municipal plant; will vote on \$75,000 bond issue for sewer construction and \$75,000 for street paving; W. E. Dozier, City Engineer. (Recently noted.)

Va., Blacksburg.—Town voted \$3000 bond issue to complete three and a half sewer system now being constructed. Address Town Clerk

Va., Norfolk.—Beard of Control is asking bids (to be received January 25) for four electrically operated centrifugal sewer pumps; W. T. Brooke, City Engineer. (See "Machinery Wanted.")

## TELEPHONE SYSTEMS

Ark., Norfork. — North Arkansas Mutual Telephone Co., capital stock \$590, incorporated; J. N. Ware, president; Joe Fix, vicepresident; T. H. Henley, secretary; S. J. Hutchison, trensurer.

Ark., Prairie Grove. — Farmers' Mutual Telephone Co., capital stock \$10,000, incorporated; J. M. Covett, president; A. N. Dean, secretary-treasurer.

Miss., Port Bayou.—Port Bayou Telephone Co., S. C. Spencer, general manager, Ocean Springs, Miss., plans extension to rural telephone line; R. M. Spaulding, engineer in charge. (Recently noted incorporated with \$5000 capital stock.)

N. C., Atkinson.—Pender Telephone Co., J. T. Hoggard, president (recently noted to extend and improve system), will open bids (already asked) on February 1; Grover Bramble, engineer in charge.

## TEXTILE MILLS

Ala., Anniston - Cotton Yarn. - Adelaide Mills will add 1616 spindles; contract reported awarded. Ga., Lagrange—Cotton Cloth.—Park Cotton Mills will build \$100,000 addition; erect 109x 196-foot two-story building with tower; install textile machinery; architect in charge. Park A. Dallis of Atlanta, Ga.

Mo., Kansas City-Wool Cleaning.—Armour Packing Co. will install machinery for cleaning, assorting and grading wool from pelts of 1,200,000 sheep killed annually; has buildings.

N. C., Chapel Hill-Cotton Yarn.-T. F. Lloyd Manuacturing Co. contemplates erection of 6000-spindle mill; now has 10,000-spindle mill.

N. C., Elkin-Woolen Blankets.—Chatham Manufacturing Co. will build addition; awarded contract to R. L. Poindexter of Elkin; now has 2000 spindles, 60 looms, 6 sets cards, dyeing equipment, etc.

N. C., Gastonia—Cotton Yarn.—Clara Manufacturing Co. will erect 75x120-foot addition and install 3000 spindles with accompanying machinery; now has 6200 ring spindles, 3400 twister spindles, 13 cards, etc., driven by electric power.

N. C., Charlotte-Knit Goods.-G. H. Tilton & Co., Tilton, Mass., are reported contemplating establishment of knitting mill.

N. C., High Point—Hosiery Yarn.—Highland Cotton Mills organized with J. H. Adams, president; J. H. Millis, vice-president; J. Ed. Millis, treasurer; H. F. Hunsucker, secretary; erect 390x125-foot building of brick and reinforced concrete construction, also cotton warehouses and office; all fireproof; install 12,000 spindles and accompanying equipment for hosiery-yarn spinning; capitalization \$125,000. (Recently reported incorporated, etc.)

N. C., High Point — Hosiery. — Gurney Kearns and Thurlow Kearns will organize company capitalized at \$100,000 to build mill; erect two-story 100x60-foot building, boller-room, etc., and install 100 knitting machines for daily capacity 500 dozen pairs hosiery.

N. C., Randleman—Plaids, etc.—Deep River Mills advise Manufacturers Record that recent report was not correct stating company will build weaving mill and cement dam.

N. C., Huntersville—Cotton Cloth.—Anchor Mills will double plant; erect additional building and install 10,000 spindles with accompanying machinery; now has 5000 spindles, 400 looms, etc.; C. W. Johnston, Charlotte, N. C., president.

S. C., Whitney-Cotton Cloth.-Whitney Manuafeturing Co. will erect additional building and install 10,000 spindles with accompanying machinery; plans and specifications being prepared.

Tenn., Englewood — Hosiery. — Englewood Manufacturing Co., authorized capital \$50,690, incorporated by R. H. Hicks, J. M. Wilson, L. A. Copenhaver and others; will erect building and install machinery for manufacturing knlt goods.

Tenn., Memphis.—W. B. Bell, New Castle, Pa., is rumored interested in plan to establish textile mill.

Va., Suffolk — Hosiery. — Maxwell Hosiery Mills increased capital stock from \$7500 to

## WATER-POWER DEVELOPMENTS

Ark., Heber Springs. — Arkansas Hydro-Electric Co., capital stock \$500,000, organized to construct hydro-electric plant; will dam Red River four miles east of Heber Springs; has franchises from Heber Springs, Augusta, Bald Knob, Judsonia, Kensett and Beebe; president, H. L. Remmel; vice-president and trensurer, C. A. Pratt; secretary, U. S. Bratton; all of Little Rock, Ark.

N. C., Glen Alpine.—North State Power Co., Morganton, N. C., will construct hydroelectric plant; build dam across Catawba River opposite Glen Alpine, four miles from Morganton; transmit electricity to Morganton, Marion and Lenoir.

N. C., Granite Falls.—Dudley Shoals Cotton Mill Co. purchased shoals on Little River; will construct hydro-electric plant and transmit electricity to cotton mill four miles distant.

Okla., Pauls Valley. — Washita Electric Power Co. advises will develop 390 additional horse-power in near future; present development includes 385 hydraulic horse-power and 260 steam horse-power, direct connected; J. B. Johnson, engineer in charge.

Okla., Tulsa.—C. P. Chenault wires Manu facturers Record: "Propose 42,000 horse-power; divert water across neck of land instead of building dam; have fall 105 feet; \$300,000 cost of construction; \$200,000 cost of transmission system; J. O. Campbell, L. W. Mason and associates Interested." (Mr. Chenault recently reported interested in hydro-electric development at Ox Bow Bend

on Arkansas River, in Osage Nation, 60 miles

#### WATER-WORKS

Ala., Birmingham. — Birmingham Water-Works Co. will add eight filtration tubs to battery of 30 now in operation on Shades Mountain; each tub to have daily filtration capacity of 500,000 gallons water, or total capacity of 4,000,000 gallons; including new equipment, plant will have total capacity for suplying 19,000,000 gallons filtered water daily.

Miss., Biloxi.—City awarded contract to Glies Harkness of Biloxi at \$4597 to construct reservoir and pumphouse and to Cooper-Greer Company of Biloxi at \$2887 to lay cast-iron pipe for pumping station; E. L. Castanera, superintendent water-works. (Call for bids lately noted.)

Fla., Tallahassee.—City will vote in April on \$40,000 bond issue to extend water mains to northwest section of city; also to pave Adams and other streets. Address The Mayor.

Md., Crisfield.—City awarded contract to H. K. Shannahan Artesian Well Co. of St. Michaels, Md., to drill well.

Mo., Drexel.—City has preliminary plans by E. T. Archer & Co., consulting engineers, New England Bidg., Kansas City, Mo., for water-works; will vote on \$40,000 bond issue. Mo., Maryville.—City contempiates expend-

Mo., Maryville.—City contempiates expending \$30,000 to improve and extend Maryville Water Co.'s plant, recently reported purchased for \$50,000; \$100,000 bond issue voted. Address The Mayor.

N. C., Durbam,—Durbam Water Co. awarded contracts for following additional equipment for pumping station: 200-horse-power boiler, centrifugal pump with capacity of 4000 gallons per minute and 6,000,000 gallons per day. Fleming engine, and feed-water heater of 400 horse-power.

N. C., Greensboro.—City will install two filters at pumping station; concrete construction; cost \$3900; awarded contract. Address The Mayor.

N. C., Gastonia.—Loray Mills will build 100,000-gallon water tank for fire protection for mill village.

N. C., Lillington.—City voted \$15,000 bond issue to construct water-works. Address The Mayor. (Recently mentioned.)

Okla., Cushing.—City contemplates voting on bond issue to extend water-works. Address The Mayor.

Okia., Durant.—City contemplates voting on bond issue for extension to water-works and sanitary sewer system; daily capacity of water-works, 1,090,000 gallons; plans not made; W. P. Danforth, engineer; A. Neely, Mayor. (Recently noted as contemplating voting on \$80,000 bond issue for water-works construction.)

S. C., Greer.-City votes February 4 on \$35,600 bond issue to construct water-works; John D. Wood, Mayor.

S. C., Mullius.—Town contemplates voting on \$60,000 bond issue to construct waterworks and sewer system. Address Town Clark

Tenn., Dresden.—City will petition Legislature for authority to issue bonds for waterworks. Address The Mayor.

Tenn., Johnson City.—J. C. Cook, chief engineer J. B. McCrary Company of Atlanta, (ia., inspected 4,000,000 gallon reservoir (lately burst) and estimates cost of repairing crevice at \$2500.

Tenn., Lonsdale, R. Station Knoxville,— City will petition Legislature for authority to issue bonds to lay water mains, etc. Address The Mayor. (See "Road and Street Work.")

Tenn., Paris.—City contemplates voting on bond issue to extend water-works. Address The Mayor.

Tex., Bishop.—Bishop Water & Electric Co., capital stock \$59,000, incorporated by F. Z. Bishop, R. R. Hall and H. T. Ellsworth.

Tex., Crystal City.—City voted \$16.500 bond issue to construct water-works, equipped with steam pumping machinery; W. B. Guilledean, Mayor.

Tex., Malone.—H. C. Rogers has plans by McCall-Moore Engineering Co. for extension to water-works; daily capacity, 29,000 gallons; erect power-house, construct 80-foot galvanized-iron tower and 80-foot reservoir; latter to have capacity of 50,000 gallons; cost of reservoir, \$2000; cost of machiaery, \$1500; opens bids for construction February 1; Mr. Rogers recently noted as having purchased interest in Malone Water Co. and to extend system. (See "Machinery Wanted.")

Tex., Marlin.-City has \$40,000 available for purchase and improvement of water-

works; F. O. Heffner, official in charge. (Previously noted.)

Tex., Rockdale.—City votes February 25 on \$30,000 bond issue to purchase, improve and extend water-works. Address The Mayor.

Va., Rocky Mount.—City has completed deep wells and will soon let contract for water-works system. Address The Mayor.

### WOODWORKING PLANTS

Ala., Mobile-Staves.-Lucas E. Moore Stave Co. of New York and New Orleans, La., will build mill with daily capacity of 35,000 staves.

Ala., Mobile—Handles, ctc.—A. E. Dickson, Box \$48, states he is interested in proposed establishment of plant to manufacture fourinch clothespins, broom handles of standard size and washboards. (See "Machinery Wanted.")

Ark., Little Rock-Wagon Hubs, etc.— Clark-Gay Manufacturing Co. contemplates rebuilding plant recently burned at estimated loss of \$75,000.

Fla., Key West-Boxes.-Key West Box Co, will increase manufacturing capacity of plant 59 per cent.; present output about 3000 boxes.

Ga., Atlanta—Furniture.—Meaders-Rogers Manufacturing Co., chartered; capital stock \$7000, by A. J. Stewart, D. J. and J. C. Meaders and L. W. Rogers; to manufacture functions.

Ga., Savannah.—J. E. Davidson of Norfolk, Va., is considering establishment of packingbox factory, using principally tupelo gum, red gum and poplar lumber.

La., Hammond - Boxes. - C. L. Kelly of Grand Rapids, Mich., contemplates, it is reported, establishing crate factory.

Mo., Hannibal – Buggles, etc. – Roderick Buggy & Implement Co., capital \$25,000, incorporated by S. F. Roderick, H. S. Elzea, F. M. Head and others.

N. C., Granite Falls-Tables, etc.-Dudley Lumber Co. will build plant; manufacture tables and building material.

N. C., Charlotte—Wagons, etc.—Charlotte
Wagon & Auto Co. (recently noted incorporated under "Motors and Garages" with
\$50,000 capital stock) succeeds J. L. Owens &
Son; will build wagons, auto tops and truck
bodies and paint autos; machinery installed; J. L. Owens, president; Thomas P.
Moore, vice-president and treasurer; F. A.
Moore, secretary. (See "Machinery Wanted.")

N. C., High Point—Wood Specialties.—High Point Manufacturing Co., F. E. Creelman, president, recently noted (under "Miscellaneous Factories") to double capacity of plant, states has not yet completed plans.

N. C., High Point-Furniture.—Harrell Manufacturing Co., capital stock \$50,000, incorporated by J. M. Harrell, H. E. Fleid and R. H. Wheeler.

Tenn., Chattanooga-Chairs.-W. S. Milne, president of Milne Chair Co., Cleveland, Tenn., will build chair factory; plant buildings of semi-fireproof construction; also erect operatives' dwellings; report states \$550,000 will be invested. (Previously mentioned.)

Tenn., Memphis—Hoops—Tennessee Hoop Co, will increase capital stock from \$25,000 to \$100,000 to enlarge operations; will erect plant for daily capacity of 45,000 hoops, 40,000 staves and 2000 sets of headings.

Tex., Galveston—Cooperage.—Texas Cooperage Co. increased capital stock from \$10,000 to \$20,000.

Va., Chester-Staves. - Wells-Davis Manufacturing Co., J. W. Jefferies, president, 515 American National Bank Bidg., Richmond, Va., will operate stave plant and also dress lumber; Burton Marye, Richmond, engineer in charge.

Va., Lynchburg — Boxes. — American Box Co. will build drykiln and shed.

## EURNED

Ala., Birmingham.—Birmingham College's boys' training school building; loss \$3000; Dr. J. D. Simpson, president.

Ala., Center.—Mrs. Birdie M. Towers' cotton gin; estimated loss \$3000.

Ala., Cleveland.—D. R. Blackwood Mercantile Co.'s store, loss \$32,000; Denton & Miles' store, loss \$4000; Hend Bros.' store, loss \$4000.

Ala., Decatur.—Holland-Blow Stave Co.'s plant, recently repurted burned, was but slightly damaged; repairs have been made.

Ala., Fayette.—Sipsey Cotton Oil & Fertilizer Co.'s plant; estimated loss \$20,000.

Ala., Myrtlewood.-D. J. Meador & Son's store building; loss \$25,000.

Ala., Piedmont.-Building owned by Webb

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Ark., Buckner.-High school. Address The

Ark., Paragould.-Corner Restaurant, J. L. Martin, proprietor; loss \$3500.

Ala., Selma.—G. G. Vaughan's resi at Dallas and Lapsley Sts.; loss \$10,000

Ark., Helena. - First Methodist Church Address The Pastor, First Methodist Church.

Ark., Little Rock.-Clark-Gay Manufacturing Co.'s plant, manufacturing wagon hubs, nated loss, \$75,000.

Adrian.-Drake & Drake's store; loss \$10,000.

Ga., Atlanta.—J. J. Haverty's building, owned by J. G. Rhodes; loss \$8000.

Ga., Register.-Central of Georgia Rail-ond's depot; C. K. Lawrence, chief engineer, Savannah, Ga.

Ga., Rome.-Crawford Company's store at Shackelton; building owned by Peters Com pany; loss \$3000.

Ga., Morven.--Hodges Bros.' store.

Ga., Tifton.-Clyatt Block, occupied Overstreet, Mathis & Co., Duncan & Stubbs M. Nathan and others; loss \$15,000.

Ky., Covington.—William A. Murray Spring lanufacturing Co.'s plant damaged; estimated loss, \$25,000.

Ky., Guthrie .- J. W. Keats' residence; los

Ky., La Center.-Hardy Clothing Co.'s store: loss \$4000.

Ky., Louisville.-Dow Wire & Iron Work dipping-room at Franklin and Buchanan Sts. damaged; estimated loss, \$10,000.

La., Franklinton,-City Hotel; loss \$10,000 La., Lake Charles .- City Delivery Co.'s harn: loss \$2000.

La., New Orleans.-William Schrt's bak : loss \$15,000.

La., Winnfield,-Corley & Anders' store at Main and Jones Sts.; building owned by Henry Bernstein, Monroe, La.; loss \$3000.

Id., Baltimore.-Third and fourth floors buildings at 14-16 N. Howard St., occu pied by Model Cloak & Suit Co.; estimated loss \$20,000.

Md., Della, R. F. D. from Adams es S. Moore's store; loss \$4000 to \$5000.

Md., Havre de Grace,-Benjamin H. Sil barn and two straw sheds; loss \$6000.

Miss., Jackson,-Millsap College's dormi tory; loss \$15,000.

Miss., Laurel.—Smith & Saucier's store on Magnolia St.; loss \$4000.

Mo., Oak Grove.-Bank of Oak Grove (re reported burned) was but slightly

Supply Co.'s plant damaged; loss \$25,060.

N. C., Stackhouse .- Carolina Barytes Co.'s mill.

Okla., Keifer.-Pastime Theater; Frazie Hardware Co.'s building and seven other structures : loss \$50,000,

Okla., McAlester.-McAlester Sash & Door 's plant; loss \$32,000.

Okla., Welch.-Thomas Huffaker's building. S. C., Anderson.-Pat W. Major's barn;

loss \$7500. S. C., Greenwood.-Brewer Normal Scho

Address Trustees of Brewei

S. C., Gaffney.—Negro school, owned by Friendly Link Society.

S. C., Due West.—Due West Oil Mill's linter-room; estimated loss, \$10,000.

C., Leicester.—J. M. Carver's blacksmith shop and store; estimated loss, \$5000.

8. C., Ridge Springs.—John Powell's store loss \$4000 to \$5000; Mrs. J. Y. Lott's store.

Tenn., Bristol.—Buildings owned by W. C. Brown, Columbia, Tenn., and occupied by Brown, Columbia, Tenn., and occupied by Louis Totz Company, Otto Heldreth and others; loss \$25,000 to \$30,000.

Tenn., Huntington.-Huntington Industrial Training School; loss \$3000. Address Trus-tees of Huntington Industrial Training

Tex., Cleburne.-Lum Tucker's cotton gin : estimated loss \$20,000.

Tex., Dublin.-First Baptist Church; le Address The Paster, First Baptist

Mineola.-J. A. Puckett's store at Tex., Mit

Tex., McGregor.-Frank Smith's residence :

Tex., Forney. - Mrs. Sue Boren's ware-ouse, occupied by W. H. Crawford; loss \$6000

state and occupied by E. A. Johnson and Grocery, W. K. McMurry, proprietor; build- Co.'s plant; estimated loss \$10,000; building

Tex., Gay Hill.-L. Kusch's residence; loss

Greenville, - Graham Flagg's store Tex., Rainbow.-W. L. Stewart's cotton

gin: loss about \$3500. Tex., San Antonio.—Ed. Steves & Sons' planing mill; estimated loss \$5,000; San Antonio Machine & Supply Co.'s warerooms damaged; estimated loss \$2000 to \$5000.

ed by Alfred Abeel; estimated loss \$4000 W. Va., Charleston.-Kanawha Glove Man-

ufacturing Co.'s plant. W. Va., Huntington,-Ohio Valley Electric

s's main car barn on 18th St

W. Va., Waverly.—Baltimore & Ohio Rail-road Co.'s depot, F. L. Stuart, chief engineer, Baltimore and Charles Sts., Baltin .; postoffice; Maccabee Hall; L. H. Hall; re; residences of Harry Black, J. Nor throp, B. W. Brown, William Botsom, W. T. Tex., Waco.-McLendon-Brown Ice Cream | Wingler and Pearl Flack; loss \$10,000

## BUILDING NEWS

## BUILDINGS PROPOSED

#### APARTMENT-HOUSES

Ala., Birmingham.—American Finance & Bond Co., George W. Pratt, president, pur-chased site at Iroquois St. and Highland Ave. with frontage of 300 feet and will erect

Ala., Birmingham.-F. M. Savage will ere two-story brick veneer building at Twelfth Ave. and 12th St.; four apartments; six rooms and bath each; fireproof construc-tion; separate hot-air furnace to each apartment; paper on gravel roofing; cos 6590. (See "Machinery Wanted.") cost \$5800 to

Fla., Ocala.-Mrs. Shelton Souter of Sparr. la., is reported as to erect eight or nine oom double flat on Fort King Ave.

Fla., Tampa.—M. C. Nix, 105 Cedar Ave., will erect apartment-house at Cleveland St. and Cedar Ave.; two stories; frame; four apartments; screened sleeping porches; gas

La New Orleans .- Freeman & Freeman will erect four-story apartment-house above Louisiana Ave. between St. Charles Ave. and Prytania St.: stucco: hardwood floors; run ning water; gas and electric lights; separate heating systems for each apartment; rear screened sleeping gallery and front gallery.

Md., Baltimore.-Normandle Apartments Md., Baltimore.—Normande Apartments Co. incorporated with \$50,000 capital stock by Herbert J. West, 23-25 Knickerbocker Bidg.; Roland R. Marchant, 383-69 Calvert Bidg., and Harry A. Prunty; is having plans prepared by Otto G. Simonson, Maryland 'asualty Tower Bidg., Baltimore, for apar

Mo., St. Louis.-George Sch building. apartment

Mo., St. Louis,-Theodore Degenhart erect two two-story tenement-houses at 2921-2923 Keokuk St.; cost \$5200.

Mo., St. Louis.-William Sturges will erect wo-story tenement-house at 1242-44 Black stone St.: cost \$5800.

St. Louis .- J. Boeke will ere story tenement-house at 1818 Ann St.; cost

St. Louis.-Trade Realty & Building o. will erect three-story tener 1462 Forest Park Blvd.: cost \$13,500.

Mo., St. Louis.-F. J. Cornwell will hree-story tenement-house at 3842 De Tonty

Mo., St. Louis.-Elzey B. Hill will ere five two-story tenement-h 29-11 Cora St.; cost \$13,750.

Mo., St. Louis.—Rosa Schemier will erect two-story tenement-house at 3832 Lincoln

St.: cost \$3500. St. Louis -John S. Harris Realty Co. will erect apartment-house for negroes on south side of Natural Bridge Ave.; 24 apart-ments of three rooms and bath; cost, in-

luding site, \$25,000. N. C., Newbern.-George A. Caton has plans for apartment and store building. See "Stores" and "Machinery Wanted.")

Tenn. Knoxville.—T. M. Michaels will erect apartment-house at 496 W. Cumber-land Ave.; three stories: 65x52 feet; cost \$10,000; plans by Charles Barber, Knoxville.

Tex., Houston.-J. C. as three story apartment-house in Main Street Addition; cost \$35,000. Houston,-J. C. McVca will erect Kirby's

Va., Norfolk.-H. B. Calwell has plans by Edward Rossell Mitchell, Norfolk, for apart ment-house at Dunmore and Bute Sts.; apartments of five rooms and bath; exter smooth white stucco over brick; dressed granite entrances; tiled baths; dumbwaiters from basement; call bell sys-tem; steam heat; hot water supplied tem; steam heat; hot water supplied through brass pipes; cost \$32,000.

7000. Va., Norfolk.-B. Frank Williams has Ala., Crossville.-First Bank of Crossville Plans by Rossel Edward Mitchell, Norfolk, will erect bank building: 25x40 feet; ordi-

for apartment-house on Stockley Gardens; nree stories; 45x80 feet; brick and frame cam heat; electric lighting; gravel roof ids opened January 24; hardwood floors, til baths; cedar clothes closets; clothes chutes; iaundries in basement; rough s places; cost \$10,000; garage in rear ugh stone fire

Va., Roanoke.-M. C. Franklin and S. Y. Sweeney are reported as having plans pre-pared for converting two dwellings at 819-21 Jefferson St. Into apartment-house contain 10 apartments; will creet three-story building at 9th and Jefferson Sts. to contain six apartments and convert adjoining build ing into four apartments.

#### ASSOCIATION AND FRATERNAL

Ala., Florence.—Young Meu's Christian Association will erect building near corner of Court and Mobile Sts.

Ark., Little Rock.—Local No. 1 of Arkan-sas, Bricklayers' International Union of America, is planning to erect building on Cross St.; two stories, equipped with bath, reading-ro

Ark., Little Rock.—Central Trades and abor Council, William Thornton, president, will erect labor temple; cost, including site,

Atlanta.-Red Men's Wigwam Asso Gn. ciation has plans by C. E. Frazier, Candler Bldg., Atlanta, for lodge building; three stories; roof garden and basement; 120x75 feet; concrete fireproof construction; steam

Ky., Elizabethtown. - Ancient Free eccepted Masons will erect lodge built Accepted Masons will erect lodge building three stories; pressed brick; cost \$15,000.

Okla., Checotah.-A. T. Whitworth, secre ary of Home Board of Independent Order of Odd Fellows of Oklahoma, Carmen, Okla will receive bids until January 25 for addi-tions, repairs and changes at the home; certified check for 5 per cent. amount of bid: plans and specifications at office of Georg A. Henshaw, Corp. Com., Oklahoma City Okla.; G. W. Bruce, grand secretary, I. O O. F. of Oklahoma, Guthrie, Okla., and oucart, architect, 408-09 Estes Bldg., ogee, Okla.

Tenn., Nashville.—Cumberland Lodge No. Ancient Free and Accepted Masons, pur-chased site at 315-17 Sixth Ave. North and will erect lodge building; cost \$75,000 to

Tex., El Paso,-Young Men's Christian As ion will erect building; about eight

Tex., Flatonia. — Herman's Sohne Park Verein will erect lodge building.

Tex., Gonzales.--Independent Order of Odd Fellows will erect building.

Tex., Texas City.-Carpenters' Union will

reer lodge ball.

Tex Paris -Elks' Building Association, T J. Henley, secretary, opens bids about Feb ruary 15 to erect clubhouse; 75x80 feet; semi of construction; steam heat; electric lighting: ruberold roofing; vacuum cleaners; cost \$25,000; plans by James I. Geiger Paris. (Previously noted as baving plans Paris.

Tex., Waco.-Young Men's Christian clation will expend \$25,000 to greet addition to association building; ordinary construc-tion; steam heat; electric lighting; tar and gravel roof; T. Brooks Pearson, archite Waco, states plans will not be ready until summer. (Recently noted.)

W. Va., Morganton, - Woman's Christian Union will erect building cost about \$25,000,

## BANK AND OFFICE

nary construction; composition or metal roof; cost \$5000. (See "Machinery Wanted.")

Ala., Decatur.-Bank of Commerce, C. Harris. president, contemplates ank building.

Ala., Dothan.—Houston National Bank is having plans prepared by C. Frank Galliher, 425 Bell Bidg., Montgomery, Ala., to remodel bank building; stone front; tile floors; orna-mental iron window guards; marble wains-coting; marble and bronze mantel fixtures; time lock; vault doors; safe deposit vault; steam heat; cost \$15,000 to \$20,000.

steam heat; cost \$15,000 to \$20,000.

Ark., Little Rock.—Pulaski Construction
Co. organized with \$10,000 capital stock;
Harry Auten, president; H. F. Auten, vicepresident and treasurer; E. L. Endicott,
secretary; will take charge of construction
work of Auten Bidg.; 15 stories; steel
frame; 70x150 feet; limestone and brick;
tile floors on concrete bases; cost \$500,000
to \$600,000; plans by George R. Mann, Little
Rock. (Recently noted.) Rock. (Recently noted.)

Fla., Dunedin.—Bank & Trust Co. of Dunedin, H. W. Bivins, president, plans to erect bank building.

Ga., Atlanta. — J. R. Smith and J. H. Ewing are reported to have option on property at Peachtree, James and Forsyth Sts., for Eastern syndicate, reported as contemporary of the contempor plating erection of 20-story office building to

Ga., Atlanta.-W. S. Carnon opens bids February 1 to erect office building; 28x68 feet; semi-fireproof construction; steam heat; electric lighting : composition roof : cost \$20,000 ; olans by W. A. Rayfield & Co., Echols-Strong Bldg., Birmingham, Ala.; proposals may be addressed to architects.

Ga., Washington,-R. A. Almand will erect arage and office building. (See "Motors and Garages.")

Ky., Lexington.—George A. Fuller Company, Munsey Bldg., Washington, D. C., and Fuller Bldg., New York, is reported as lowest bidder to creet Fayette National Bank; 15 stories; 59x78 feet; plans by McKim, Mead & White, 160 Flfth Ave., New York. Lexington.-George A. Fuller Co. (Previously noted.)

Md., Baltimore.-Contractors estimating on alterations and improvements to building of National Bank of Baltimore, at St. Paul and Baltimore Sts., are J. Henry Miller, Inc., 108 Dover St.; D. M. Andrew Company, Mt. Vernon Avc. and 25th St.; John Hiltz & Sons, 7 Clay St.; John Waters, 23 E. Center St.; Piel Construction Co., 2400 Arunah Avc.; Edward Brady & Sons, 1113 Cathedral St.; J. J. Walsh, 1533 Maryland Ave.; Wal-ter E. Burnham, Law Bldg.; Morrow Bros., 214 W. Saratoga St.; B. F. Bennett Building Co., 123 S. Howard St.; all of Baltimore; plans call for erection of additional story, interior alterations, brick and marble trimmings, changing entrances, etc.; cost \$75.00 (Previously noted.)

Tex., El Paso,-American Bank will e bank building on San Antonio St.; is having plans prepared by Trost & Trost, El Paso, for seven-story structure.

Tex., Marfa,-Chamber of Commerce plans acquire opera-house, erect addition and quin for own use.

Tex., Paris.-First National Bank will ere ullding; slx stories; steel; cost \$100. 000 to \$150,000

Tex., Waco,-Edward & George Rotan reported to have purchased site at Austin and 6th Sts. to erect office building.

Va., Graham.-First National Bank is considering erecting fireproof cost \$20,000; plans prepared. bank building :

Va., Lynchburg. - Lynchburg National Bank is reported as to enlarge bank building.

Va., Nickelsville,-Farmers' Exchange Bank will erect bank building; 50x24 feet; two stories; fireproof construction; acetylene gas lighting; galvanized roof; cost \$4000 to \$5000. (See "Machinery Wanted.")

Vn., Staunton.-Augusta National us to erect stone exterior to bank build

Va., Staunton.—Central Realty Corpora-tion, Herbert J. Taylor, president, has not selected architect to prepare plans for office store building recently noted. (See

W. Va., Warwood.—Bank of Warwood, C. II. Eberts, cashler, has not selected archi-tect to prepare plans for bank, store and office building recently noted.

## CHURCHES

Ala., Birmingham. — Eighty-third Street Presbyterian Church will erect brick veneer edifice in East Lake; cost \$3000. Address The Pastor, Eighty-third Street Presbyterian

Ala., Huntsville.—Lakeside Methodist Episcopal Church, H. C. Binford, chairman of building committee, opens bids February 1 to erect edifice; 40x60 feet; ordinary construction; hot-air heat; electric lighting; metal shingle roof; cost \$3000; plans by W. A. Rayfield & Co., Echols-Strong Bidg., Birmingham, Ala.; proposals may be addressed to architects.

Ark., Helena.—First Methodist Church will erect church to replace edifice reported burned; cost \$50,000. Address The Pastor, First Methodist Church.

Ga., Atlanta.—Temple congregation, Albert Steiner, president, will issue \$25,000 of bonds to enlarge temple.

Ga., Atlanta.—Central Baptist Church, Rev. Caleb A. Ridley, pastor, opens blds about March to erect edifice; 90x140 feet; fireproof construction; furnace heat; electric lighting; cost \$60,000; plans by A. F. Everett, Atlanta; S. P. Moncrief, South Pryor St., may be addressed. (Recently peted.)

Ga., Cordele,—Baptist Church will erect edifice; cost \$30,000. Address The Pastor, Bantist Church.

Ky., Louisville. — Directors of Evergreen Cemetery are having plans prepared for chapel, etc. (See "Miscellaneous Structures.")

Md., Texas.—Methodist Protestant Mission opens bids February 1 to erect edifice; 32x48 feet; Sunday-school 10x16 feet; mill construction; shingle roof; cost \$3000; plans by Price Bros.; F. S. Carson may be addressed. (Recently noted.)

Mo., St. Louis.—Central Baptist congregation purchased church building of Tabernacle Baptist Church at Washington and Ewing Sts., and will expend \$500 for improvements. Address The Pastor, Central Baptist Church.

N. C., Wake Forest.—Wake Forest College has plans for edifice recently noted. (Sec "Schools,")

N. C., Charlotte. — Methodist Episcopal Church will erect edifice; Rev. D. D. Bailey, Kannapolis, N. C.; M. A. Troutman, Concord, N. C.; Rev. C. M. Ellis, Charlotte, and others are interested.

Tenn., Knoxville.—Park Avenue Christian Church, Rev. J. Lem Keevil, pastor, will erect edifice; cost \$40,000.

Tex., Dallas.—Colored Methodist Church will erect edifice at Burford and Juliette Sts.; cost \$35,000. Address The Pastor, Colored Methodist Church. Tex., Dallas.—St. Paul's Methodist Episco-

Tex., Dallas.—St. Paul's Methodist Episcopal Church will erect brick edifice at 1810 Burford St.; cost \$35,000. Address The Pastor, St. Paul's Methodist Episcopal Church.

Tex., Temple.—First Baptist Church, Rev. J. M. Dawson, pastor, will erect building adjoining church for Sunday-school and quarters for various church organizations; two stories and basement; 40x40 feet; brick-veneer; will be used temporarily until completion of \$100,000 edifice which congregation plans to erect. (Recently noted.)

Tex., Temple.—Memorial Baptist Church, Rev. Carroll Smith, pastor, has plans for \$25,000 edifice.

Tex., Waco. — Morrow Street Methodist Church, Rev. A. D. Porter, pastor, will erect edifice; cost \$25,000 to \$50,000.

Va., Lynchburg.—Rev. Joseph M. Seaton is interested in organization of Unitarian Church and erection of edifice.

Va., Richmond.—Meade Memorial Episcopal Church, Rev. F. Ernest Warren, rector, will crect edifice and rectory; cost to exceed \$20,000.

W. Va., Huntington.—Westmoreland Christian Church will erect bungalow style edifice; Mrs. Donald Clark is interested.

## CITY AND COUNTY

Ga.. Camilla - City Hall, etc. - City has plans by Sayre & Baldwin, Anderson, S. C., for city hall and opera-house; bids opened in February. (Recently noted.)

L5., New Orleans—Library.—City plans to creet \$25,000 Carnegie Library for negroes on Dryades St. between Jackson Avc. and Philip St. Address The Mayor.

La., New Orleans—Fire Station.—Proposals received until January 28 to erect Central fire station on Decatur St.; plans and specifications at office of City Engineer; deposit of \$500 required; bond in amount of one-half of bid; A. J. Ricks, commissioner. (Recently noted.)

La., Shreveport-Market,-City will vote on \$200,000 bond issue to establish city market, Address The Mayor,

Md., Baltimore—Market,—City will enclose Richmond Market with glass; James II. Preston, Mayor. Md., Baltimore — Library. — Enoch Pratt Free Library, B. C. Steiner, librarian, Mulberry St. near Cathedral St., will erect No. 17 branch library on North Ave. between Bentalou and Smallwood Sts.; one story and basement; brick; cost \$25,000; architect not selected.

Mo., Joplin — Market.—City has plans by F. W. McDougal & Co. for market-house; three stories and tower; concrete construction: 15 stalls 15x15 feet, and 16 18x15 feet on first floor, also two halls and porch 16 feet wide; two restaurant-rooms, lavatories, restrooms, etc., on second floor; offices, etc., on third floor: concrete floors; electric lights; cost of building, \$30,000; site, \$50,000; sidewalks, scales, etc., \$10,000. (Recently noted to vote on \$90,000 bond Issue January 21.)

N. C., Raleigh—Jail.—Wake County Commissioners are considering erection of county jail and courthouse.

Okla., Clinton-Hospital.-City is reported to have voted \$25,000 bond issue to erect hospital. Address The Mayor.

S. C., Camden—Hospital.—Kershaw county is having plans prepared by J. B. Urquhart, Columbia, S. C., for hospital: 70x50 feet; ordinary construction; steam heat; electric lighting; slate or tile roof; cost \$30,000; date of opening bids not determined; William Shannon may be adressed. (Previously noted under "Miscellancous.")

Tenn., Chattanooga—Markets.—City Commissioners passed market-house ordinance authorizing two market-houses, one on site of police station, other in South Chattanooga.

Tenn., Memphis—Jail.—Shelby County Commissioners plan to issue \$500,000 of bonds to purchase site and erect jail.

Tenn., Lonsdale, R. Station, Knoxville,— Jail, etc.—City plans to issue \$50,000 of bonds to erect city jail, school improvements, etc. Address The Mayor.

Tex., Austin-Stables.-City will erect stables on East Ave. near the river. Address The Mayor,

Tex., Dallas—Comfort Station.—City will receive bids until January 31 to erect underground comfort station at Main and Harwood Sts.

Tex., Denison-Hospital.—City has plans by J. O. Parr, 410 Oklahoma Bidg., Oklahoma City, Okla., for hospital; two stories and basement; direct and indirect steam heat; pitch and gravel roof; cost \$29,000; will receive bids until January 30. (Previously noted.)

Va., Blacksburg-City Hall.-City voted \$3900 bond issue to erect municipal building. Address The Mayor.

Va., Richmond-Market.-J. T. Nuckols, 1102 N. Main St., Richmond, recently reported as having contract to erect market, states contract has not been awarded.

W. Va., Warwood—Town Hall.—Charles H. Dowler, Mayor, and Charles B. Miller, Recorder, will receive bids until January 24 to erect town hall; plans and specifications at residence of Mr. Miller. (Recently noted.)

## COURTHOUSES

Ala., Gadsden.—Etowah County Commissioners plan to improve courthouse at cost of \$3000 to \$5000.

La., Jennings.—Courthouse and public grounds committee of Calcasieu Parish Police Jury, Anselm Mercantel, chairman, selected Killinger home property for courthouse; will remove to northwest corner of block and remodel,

Miss., Meadville. — Franklin county will vote March 7 on \$40,000 bond issue to erect courthouse; A. R. Moore, Chancery Clerk. (Recently noted.)

N. C., Raleigh.—Wake County Commissioners are considering erection of courthouse. (See "City and County.")

Tex., Eldorado.—Schleicher county defeated \$60,000 courthouse bond issue. Address County Commissioners. (Previously noted.)

Tex., Palestine. — Anderson county will erect courthouse to replace burned structure; fireproof construction; architect not selected; cost \$150,000; E. V. Swift, County Judge. (Recently noted.)

Va.. Tazewell.—Tazewell County Commissioners, C. W. Greever, clerk, will receive bids on regular blank forms furnished by clerk until February 15 to remodel courthouse: certified check for \$2500, payable to Mr. Greever; plans and specifications by Andrew J. Bryan, Louisville, Ky., on file at office of Mr. Greever, or may be had from him on receipt of certified check for \$25. (Previously noted.)

### DWELLINGS

Ala., Birmingham.—Harvey M. Perry has plans by William Leslie Welton, Birmingham, for dwelling at Edgewood Park,

Ala., Birmingham.—Mrs. Mary Schillinger will erect two-story brick-veneer dwelling at Whitaker St. and Highland Ave.; cost \$9000.

Ala., Birmingham.—C. W. Mills will erect two-story frame dwelling at 16th Ave. and Beach St.; cost \$3500.

D. C., Washington.—Edward McAleer, 828 Kennedy St. N. W., will erect three twostory brick dwellings at 1410-14 8th St. N. W.: cost \$10.000.

D. C., Washington.-William C. Blundon, 15 Rhode Island Ave. N. W., is having plans prepared by Albert C. Landvolgt, 1301 G St. N. W., Washington, for two dwellings; eight rooms; 21 feet 6 Inches by 59 feet; ordinary and mill construction; hot-water heat; electric lighting; tin and slate roof; cost \$10,000; construction by owner. (Recently noted.)

Fla., Jacksonville.—C. D. Mills will erect two-story frame dwelling on 7th St. between Main and Hubbard Sts.; cost \$15,000.

Fla., Jacksonville.—J. W. Girvin will erect two-story frame dwelling on Park St. between Gilmore and Fisk Sts.; cost \$3500.

Fla., Jacksonville.—C. Brinkley will erect two-story frame residence on Banana St.; 26x46 feet; mill construction; electric lighting; metal roof; cost \$3000.

Fin., Jacksonville.—Brown Realty Co. will erect three two-story frame dwellings on 11th and Banana Sts.; 21x40 feet; electric lighting; cost \$2500; metal roof; plans and construction by owner.

Fla., Jacksonville.—Realty Associates will erect one-story and one-and-a-half-story frame cottages on Otto St. between 10th and 11th Sts.; cost \$3000.

Fla., Ocala,-Dr. 8. II. Blitch will erect residence on Fort King Ave.

Fla., Orlando.-Philip Bun, Wallingford. Conn., is reported as to erect residence.

Fla., Tampa.—Mrs. Elizabeth Whitehead will erect residence to replace burned structure. (Mrs. Elizabeth White recently reported as to erect residence.)

Fla., Tampa.—Anna Maria Beach Co., G. Bean, president, will erect number of cottages.

Ga., Atlanta.—J. W. Cook will erect onestory frame dwelling at 126 Linwood St. to cost \$4000, and two-story brick-veneer dwelling at 128 Linwood St. to cost \$4750; day

Ga., Atlanta.-W. A. Albright will erect two-story brick veneer dwelling on Springdale Rd.; cost \$15,000.

Ga., Atlanta. — Mrs. W. Blackman will erect two-story stucco dwelling at 215 Myrtle St.; cost \$12,700.

Ga., Augusta.—Mrs. Joseph H. Day will erect residence on McDowell St.; two stories; frame; cost \$8400.

Ga., Augusta.—Mrs. Margaret Stokes will creet two-story frame dwelling on Walton Way near the Arsenal; cost \$7650.

Ga., Augusta.-J. A. A. W. Clark will erect dwelling on McDowell St.; cost \$6400.

Ga., Columbus.—Harry L. Williams is having plans prepared by A. Ten Eyck Brown, Atlanta, Ga., for residence; two stories; frame; exterior of first story veneered with brick; second story stucco finish; tile roof; hardwood floors; steam heat; cost \$15,000; cost of heating plant, \$1200; opens bids about February 15.

Ga., Savannah.—South Side Baptist Church will erect eight residences on site adjoining church. Address The Pastor, South Side Baptist Church.

Ga., Savannah.-J. W. Burns will erect

Ga., Washington.-Thomas W. Miller will erect residence on Spring St.

La., New Orleans.—W. A. Russell, president of Farmers' Bank, Beaver, O., purchased tract of land at Metairie Ridge will erect residences for himself, son and two brothers, and sub-divide remainder of property.

La., New Orleans.—Hunter Charlton will erect residence in Arcadia Court; double; two stories; cost \$3000.

La., New Orleans. - George Montgomer will erect two-story residence to cost \$3800.

Md., Baltimore.—Rochester-Kirkness Realty Co., Section O, Wholesale Fish Market, has plans by C. W. McKewin for 46 dwellings in 2700 and 2800 Harford Rd.; two stories; ornamental brick; 15x60 feet; cost \$92,000. (Previously noted.)

Md., Baltimore.-T. H. Disney, 210 E. Lex-

ington St., is having plans prepared by W. Collett for 13 two-story dwellings at 2015 to 2037 Robb St.; 14x45 feet; cost \$1400.

Md., Baltimore. — Forest Park Co., 408
Maryland Telephone Bidg., is having plans
prepared by Henry J. Tinley, 312 N. Charles
St., Baltimore, for two 2½-story cottages;
one on Brookline Ave., near Garrison Ave.;
frame; slate roof; steam heat; other on
Brookline Ave., east of Granada Ave.; brick;
hardwood Interior finish; steam heat; 25x
28 feet; cost \$3000 each.

Md., Baltimore. — James E. Ingram, Ingram Bldg., has plans by Haskell & Barnes, 301 N. Charles St., Baltimore, for residence to replace burned structure; two-story flatroof structure with one-story structure in rear; frame and stucco. (Previously reported burned.)

Md., Baltimore.—Walter Westphal, 1700 N. Bond St., will erect 166 dwellings on Saratoga, Pulaski, Smallwood, Lexington, Penrose Sts. and Wilkens Ave.; two stories; cost \$200,000; plans by S. A. Bersterman, 36 N. Potomac St., Baltimore. (Portion of operation recently noted.)

Md., Baltimore.—J. W. Lobmuller, Calvert Bldg., will erect 30 dwellings; 14x52 feet; ordinary construction; hot-air heat; plastic roofing; cost \$1500 each; construction by owner.

Md., Baltimore.—John E. Semmes, Jr., 825-28 Equitable Bldg., is having plans prepared by Laurence H. Fowler, 347 N. Charles St., Baltimore, for residence at Guilford. (Recently noted.)

Md., Baltimore.—Charles H. Gerwig, 2238 W. North Ave., will erect seven two-story dwellings on Falls Rd.; cost \$10,000.

Md., Ruxton.—E. Edward Dyer is having plans prepared by Theodore Wells Pietsch, American Bldg., Baltimore, Md., for residence addition; two-and-a-half stories; frame and concrete; 30x35 feet; extension of present hot-water system of heating; shingle roof; bids opened January 28.

Md., Chestertown. — George B. Westcott will erect residence.

Md., Ruxton. — Theodore Wells Pietsch, American Bidg., Baltimore, Md., prepared plans for addition to his residence; frame; hardwood interior fittings; electric lights.

Mo., Kansas City.—Cowherd Land Co. will creet two stucco dwellings at 6018 and 6038 Morningside St.; cost \$9000 and \$6000, respectively.

Mo., Kansas City. — Swofford Realty Co. will erect stucco dwelling at 3130 Coleman St.; cost \$3000.

Mo., Kansas City.—Home Investment Co. will erect 34 stucco, stone and brick-veneer dwellings on Chestnut St. from 41st to 42d St.; cost \$81,000.

Mo., Kansas City.—E. S. Hughes will erect stucco dwelling at 5i32 Central St.; cost \$7000.

Mo., Kansas City.—C. L. Brown will erect stucco dwelling at 6000 Central St.; cost \$10,500.

Mo., Kansas City.—Dr. Walton Hall has plans by Root & Siemens, Kansas City, for residence at Westover itd. and Belleview Ave.; native stone; tile roofing; Gothic style; verandas and porches.

Mo., Kansas City.—J. G. Goodwin of Board of Trade will erect \$10,000 residence on Oak St. between 52d and 53d Sts.

Mo., St. Louis. — Alvina Kreilbohn will erect two-story dwelling at 5203 Devonshire St.; cost \$4000.

Mo., St. Louis.—Regis Realty & Building Co. will erect seven-room residence; cost \$5000.

N. C., Asheville.—Fred L. Seely has plans by G. W. McKibbens, Atlanta, Ga., for residence at Overlook Park; 170x50 feet; native stone exterior walls; tile roof; window tracings of cut stone; leaded, art and plateglass windows; two and three stories; lacadry, heating and refrigerating plants and storage-rooms in basement; Spanish style; reported to cost \$75,000.

N. C., Asheville,—Gov. Locke Craig, Raleigh, N. C., is reported as to erect country residence.

Okla., Tulsa.--Harry F. Sinclair will erec \$40,000 residence. v pal "Ch

Sts.

S. C., Charleston.—John D. Matthews will erect residence in St. Michaels alley; cost \$3000.

 C., Charleston.—DuBose Heyward will erect residence in St. Michaels alley; cost \$3000.

Tenn., Memphis.—J. J. Mackey, 1199 N. Parkway, will expend \$5000 to crect dwelling; 30x33 feet; mill construction; hot-air heat; electric lighting; shingle roof; cost

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\$5000; plans and construction by owner. (Recently noted under "Stores.")

Tenn., Memphis.—Gilbert Real Estate Investment Co. will erect residences at 545 Lemaster Ave. and 1796 Vinton Ave.; cost \$500 each.

Tex., Corsicana.—J. C. West opens bids January 25 to rebuild dwelling; two stories; erdinary construction; shingle roof; cost \$3500; plans by M. T. Horn, Corsicana. (Recently reported burned.)

Tex., Dallas.—B. G. Howard will erect 10-room and 12-room cottages at 5114 and 4916 Worth St.; cost, \$5600 and \$6200, respectively.

Tex., Dallas.—D. A. Franks will erect twostory seven-room frame residence at 3208 Cole St.; cost \$4500.

Tex., Callas.—W. B. Langley will erect two-story eight-room frame residence at 4505 Swiss St.; cost \$3250.

Tex., Dallas.—J. L. Chandler will erect two cottages at 706 W. 12th St. and 4503 Swiss St.; five and eight rooms; frame; cost \$1750 and \$3250, respectively.

Tex., Dallas.—W. R. Lynch will erect two nine-room two-story frame dwellings at 1631 and 1635 Pine St.; cost \$3000.

Tex., Dallas.—Dallas Reib will erect eightroom two-story frame dwelling at 2836 Forest St.; cost \$3500.

Tex., Dallas.—N. M. Harper will erect seven five-room cottages on Clinton St., one at 5310 Simpson St., one at 5411 Reiger St., and two eight-room cottages at 226 Winnetka St. and 296 Woodlawn St.; total cost, \$18,590.

Tex., Dallas.—George E. Cassell will erect eight-room two-story residence at 1006 Park St.: cost \$3000.

Tex., Dallas,—Mrs. E. B. Muse will erect ten-room two-story frame residence at 523 10th St.; cost \$4000.

Tex., El Paso.—O. W. Pickering will erect two brick bungalows at Ange and River Sts.; cost \$4600.

Tex., El Paso.—F. C. Jones opens bids February 1 to erect residence; 40x60 feet; mill construction; steam heat; composition roof; cost \$5000; plans by O. H. Thorman & Co., El Paso. (Recently noted.)

Tex., Houston.-Rev. Robert Carroll will erect residence on lower Colorado Ave.

Tex., Houston.—W. P. Davis will erect bungalow on Broadway Ave. near Park Place Ave.; two stories.

Tex., Houston.—Paul Caldwell of Parrish Book Store will crect residence on California Ave.

Tex., Houston. — U. M. Fitzpatrick will erect residence in Park Pl.

Tex., Houston.—John H. Kirby opens bids about March to erect dwelling; fireproof construction; heating not decided; electric lighting; tile roof; cost \$100,000; plans by Sanguinet & Staats, Fort Worth, Tex. (Recently noted.)

Tex., Houston.—M. L. Grymes will erect eight dwellings; mill construction; electric lighting; metal roof; plans not definite. (Recently noted.)

Tex., Houston.—Russell Brown Co. will crect six-room dwelling on Whitney St.;

Tex., Houston.—Estate of W. H. Cole will expend \$5000 to remodel building on Frank-lin Ave.

lin Ave.

Tex., Pleasanton.—W. A. McCoy will erect four or five rent houses.

Tex., Pleasanton.-J. M. Galloway contemplates erecting four rout houses

plates erecting four rent houses.

Tex., Pleasanton.-E. S. Farris will erect

Tex., Sulphur Springs.—Buster Smith will erect two-story residence on Depot St.

Tex., Yoakum.—F. Mergenthal will erect two residences on Gonzales St.; cost \$10,000.

Va., Bedford City.-Andrew Carper will erect dwelling.

Va., Richmond.—J. H. Lewis awarded contract to erect store and dwelling. (See "Stores.")

Va., Richmond.—Meade Memorial Episcopal Church will erect rectory. (See "Churches.")

Va., Richmond.-Mrs. Annie M. Smyth will erect two-story brick dwelling at 2336 Monument Ave.; cost \$12,400.

Va., Richmond.—Virginia Construction Co. will erect two-story detached brick dwelling on Golden St. between Hickory and Tyler Sts. to cost \$3000, and two-story brick dwelling on Hickory St. between Goddin and Baker Sts.; cost \$3000.

Va., Staunton. -- Matthew Greuling will erect bungalow in Second Woods.

## GOVERNMENT AND STATE

D. C., Washington — Bureau of Printing and Engraving.—Treasury Department, Oscar Wenderoth, supervising architect, opened bids to finish building for Bureau of Printing and Engraving; lowest bidders are as follows: For mechanical equipment (except elevators), S. Faith & Co., Philadelphia, Pa., at \$292,897; hydraulic elevator plant, Portland Company, Boston, Mass., at \$99,134; interior finish, S. F. Gormley Company, Washington, \$377,689. (Recently noted.)

Ga., Augusta—Postoffice.—Treasury Department, office of Oscar Wenderoth, supervising architect, Washington, D. C. Proposals received until February 20 for construction (including plumbing, gaspiping, heating apparatus, electric conduits and wiring, interior lighting fixtures and approaches) of United States postoffice and courthouse; three stories and basement; ground area, about 11,000 square feet; fireproof construction except roof; stone facing; terra-cott and wood corpice; tile and copper roof; drawings and specifications obtainable from custodian at site or at this office, at discretion of supervising architect. (Previously noted.)

La., Pineville—Hospital.—Board of Administrators of Louisiana Hospital for Insane is having plans prepared by Wm. Drago, \$31 Canal St., New Orleans, La., assisted by Herbert Foltz, architect of Lunacy Commission of Indiana, for two additional buildings to accommodate 200 patients at Louisiana Hospital for Insane; cost \$70,000.

Md., Owings Mill—School for Feeble-mind-ed.—State is having plans prepared by Ellicott & Emmart, Union Trust Bidg., Baltimore, for building for Maryland Asylum and Training School for Feeble-Minded; three stories; fireproof; 150 feet long; irregular in width; stone walls; steel and wood construction; heating and lighting from central plant; slate roof; cost \$100,000; contract probably let at February meeting of board of directors.

S. C., Columbia—Penitentiary. — Directors of State Penitentiary, D. J. Griffith, superintendent, will erect woman's building.

W. Va., Grafton-Postoffice.—Treasury Department, Office of O. Wenderoth, Supervising Architect, Washington, D. C. Proposals received until 3 P. M. March 6 for construction, complete (including plumbing, gasplping, heating apparatus, electric conduits and wiring, interior lighting fixtures, hydraulic mail lift, and approaches), of United States postoffice; three stories and basement ground area, 6000 square feet; fireproof construction, except roof; stone facing; terracotta and copper cornice; tile and copper roof; drawings and specifications may be obtained from custodian of site at Grafton, or at this office, at discretion of supervising architect.

W. Va., Morgantown—Postoffice.—Treasury Department. Oscar Wenderoth, supervising architect, Washington, D. C., opened bids to erect postoffice; John G. Unkefer, Minerva, O., is lowest bidder at \$93,393 for limestone and \$98,393 for sandstone construction. (Previously noted.)

## HOTELS

Ala., Tuscaloosa.—McLester Building Co., Henry A. Snow president, will expend \$10,000 for improvements to hotel; will add 15 rooms and remodel 40 rooms; install baths, water extensions and low-pressure steam heat; extend electric wiring; install elevator; tar and gravel roof; plans by W. C. Weston, Birmingham, Ala. (Recently reported.)

Ga., Columbus.—Columbus Roberts is having plans prepared by George E. Murphy, Atlanta, Ga., for hotel on 12th St.; will use two-story Coca-Cola building now on site as foundation, erect addition. etc.; brick; steam heat; 60 guestrooms, 14 with private baths; cost \$35,000; contract to be awarded between February 15 and March 1. (Recently noted.)

Ky., Louisville.—Seelbach Realty Co. will erect hotel previously noted; 10 stories; 100 rooms; cost \$100,000; also erect power-house. (See "Electric Plants.")

La., Whnnfield.—C. H. Elliott opens blds February 10 to rebuild hotel and store building; 60x110x35 feet; brick and concrete: steam heat: electric lighting; composition or metal roof; cost \$15,000. (Recently reported burned.)

Mo., St. Louis.—Hotel Jefferson Co., it is reported, will erect addition to Hotel Jefferson; probably 12 stories.

N. C., Vade Mecum.—Cicero Tise will erect hotel to replace burned structure; three stories; 200x40 feet; ordinary construction; electric lighting; metal shingle roof; cost \$35,000; day labor. (Previously noted.)

Tenn., Memphis.—College Inn Co., John Pittman, president, will increase capital stock from \$25,000 to \$100,000; remodel building at McCall and Main Sts.; awarded contract for \$38,000 worth of furnistings.

Tenn., Nashville.—Hermitage Hotel is reported as to erect addition to hotel; 100 rooms; cost \$200,000; plans by J. E. R. Carpenter, 1 Madison Ave., New York.

Tex., Gilmer.-C. G. Lancaster, Marshall. Tex., is preparing plans for 30-room hotel; cost \$15.000.

Tex., Luling.-W. P. Walker and R. Jacobs will erect \$20,000 hotel.

Va., Glenallen,—William H. Adams, president of Board of Aldermen, Richmond, Va., purclased Forest Lodge and will remodel for hotel.

#### MISCELLANEOUS

D. C., Washington-Society,—National Geographic Society has plans by Arthur B. Heaton, 1319 F 8t, N. W., Washington, for addition to building adjoining Hubbard Memorial Hall; cost \$125,000.

Flm., Kissimmee—Clubhouse.—Kissimmee Golf and Country Club, L. A. Hamilton, president, will erect clubhouse.

Fla., Tampa-Salvation Army.-Salvation Army is having plans prepared by Bonfoey & Elliott, Tampa, for building; three stories; brick; 80x49 feet.

Ga., Waycross — Clubhouse. — Waycross Country Club, R. P. Izlar, president, opens bids in about 60 days to erect clubhouse; two stories and basement; ordinary construction; heating and lighting not determined; clevator; cypress shingle roof; cost \$5000; plans by Park Mor Rand Co. (Recently noted.)

Ky., Louisville—Mausoleum, etc.—Directors of Evergreen Cemetery are having plans prepared by Brinton B. Davis, Louisville, for chapet on plaza fronting entrance: auditorium to scat 3300: classic design; will be one of group of white granite buildings consisting of chapel, crematorium and mausoleum.

Ky., Louisville — Citadel. — Executive and Advisory Committee in charge of building for Salvation Army inaugurated final campaign to raise remainder of \$60,000 building fund to erect citadel; Harry W. Robinson, chairman of committee.

La., Lake Charles—Barn. — City Delivery Co. will rebuild barn reported burned at loss of \$3000; fireproof.

La., New Orleans—Hospital.—Hotel Dieu will, it is reported, expend approximately \$300,000 to erect buildings for Catholic home for incurables; rear building, three stories, to contain laundry, kitchens, nurses' quarters, etc.; other building to contain operating-rooms, charity wards, etc.; main building to be erected later; fireproof; plans by Andry & Bendernagle, New Orleans; will receive bids until February 15. (Recently noted.)

La., New Orleans—Casino.—City Park Improvement Association will erect casino in City Park; two stories; frame and brick; cost \$34,000.

Md., Baltimore—Stable.—M. F. W. Wiedemeyer is having plans prepared by John Freund, Jr., 210 E. Lexington St., Baltimore, for one-story brick stable at rear of 904-18 N. Calhoun St.; 41x130 feet; cost \$3500.

Md., Glen Echo-Motordome.—Thomas R. Dodge is negotiating with Washington Railway & Electric Co., 14th and E. Capitol St., Washington, D. C., for establishment of motordome at Glen Echo Park; it is planned to construct third of a mile board track, banked at angle of 60 degrees.

Md., Havre de Grace-Barn and Sheds.-Benjamin H. Silver will rebuild barn and sheds reported burned: former, 59x50 feet; sheds, 75x18 feet; metal roof; plans not determined.

Miss., Meridian — Hospital. — Lauderdale County Medical Society is reported as interested in establishment of tuberculosis hospital; H. T. Humphries, J. F. Miles and Dr. M. J. L. Hoye, committee to devise ways and means of supplying fund.

Mo., St. Louis-Clubhouse, Queen's Daughters will erect annex to clubhouse at 3730 Lindell Blvd.

Mo., St. Louis—Market,—Auction Cold-Storage Warehouse Co. will probably be incorporated with capital stock of \$500,000 to \$1,000,000 by Murray Phillips. New Madrid, Mo.; W. H. Garranfle, Little Rock, Ark., and J. S. Turley and John F. McDermott, both of St. Louis; plan is to convert Southern Hotel building into central produce market with cold-storage warehouse at cost of \$200,000.

N. C., Asheville — Waiting-Room. — Grove Park Inn Co., it is reported, will erect lodge building to be used as waiting-room for street-car passengers, and entrance to hotel park; native stone and reinforced concreté.

N. C., Winston-Salem-Home.—Children's Home, H. A. Hayes, superintendent, will erect \$10,000 cottage for girls. (Other Improvements previously noted.)

Tenn., Knoxville — Exposition. — National Conservation Exposition Co. will erect additional building as duplicate of woman's building; will begin construction March 1 of East Tennessee and Southern States buildings. (Previously noted.)

Tenn., Nashville — Clubhouse, — Marathon Motor Works will erect clubhouse for employes containing gymnasium, concrete swimming pool, tub and shower baths, billiard rooms, etc.

Tex., Austin—Sheds.—Hillyer Deutsch Lumber Co., F. W. Sternenberg, manager, will expend \$4000 to \$6000 to erect lumber sheds; 138x276 feet; ordinary construction; composition roof; day labor. (Recently noted.)

Tex., Dallas-Sheds.-Lingo Lumber Co, will erect lumber sheds at 2631 San Jacinto St.; cost \$3500.

Tex., San Antonio—Orphanage.—Rev. J. W. Shaw opens bids January 39 to erect boys' dormitory for St. John's Orphanage; 59296 feet: fireproof construction: steam heat; freight elevator; asphalt roofing on concrete slab; cost \$75,000; plans by F. B. Gaensleu, Alamo National Bank Bldg., to whom proposals may be addressed. (Recently noted.)

Tex., Sweetwater-Transfer.-A. B. Yantis will erect two-story brick business building to be occupied by Sweetwater Transfer Co.

W. Va., Point Pleasant—Skating Rink,— C. C. Tippet and Art Cotrill will erect skating rink.

#### RAILWAY STATIONS, SHEDS, ETC.

Ga., Lagrange.—Atlanta, Birmingham & Atlantic Railroad, Alexander Bonnyman, chief engineer, Atlanta, Ga., will creet passenger station.

8. C., Greenville—Car Barn.—Piedmont & Northern Railway, Thomas B. Lee, chief engineer, Charlotte, N. C., will erect car barn; 66x200 feet; brick; one story; steel roof, (See "Railway Shops, Terminals, Roundhouses, etc.")

Tenn., Knoxville.—Nashville, Chattanooga & St. Louis Railway, H. McDonald, chief engineer, Nashville, Tenn., will, it is reported, erect passenger station.

Tex.. Bellville.—Gulf. Colorado & Santa Fe Railway Co., F. Merritt, chief engineer, Galveston, Tex.. opens bids February 3 to creet passenger depot; 28x141 feet; fireproof construction; glazed tile roof; cost \$25,000. (Recently fully described.)

Tex., Cameron.—Gulf, Colorado & Santa Fe Railway Co., F. Merritt, chief engineer, Galveston, Tex., opens bids February 3 to erect depot; 28x141 feet; fireproof construction; glazed tile roof; cost \$25,000. (Recently fully described.)

Tex., Caldwell.—Gulf, Colorado & Santa Fe Railway Co., F. Merritt, chief engineer, Galveston, Tex., opens bids February 3 to erect depot; 28x141 feet; fireproof construction; glazed tile roof; cost \$25,000. (Recently fully described.)

Tex., Houston.—Missouri, Kansas & Texas Railway Co. of Texas, A. M. Acheson, chief engineer of maintenance and way, Dallas, Tex., will expend \$125,000 to erect passenger station; main building, 40x100 feet; second story north wing 34x60 feet, south wing 40x40 feet; viaduct to connect second floor with main viaduct on south; fireproof construction; steam heat; indirect system of lighting; refrigerating plant; baggage elevator; Johns-Manville built-up or Barrett specification tar and gravel roof; oak trimmings in waiting-room; marble stairs, iron balustrades and butterfly train shed; plans by Albert T. Canfield, office of chief engineer, Dallas; bids opened January 24. (Recently noted.)

Tex., Waco. — Missouri, Kansas & Texas Railway Co., S. B. Fisher, chief engineer, St. Louis, Mo., will erect freight terminals on site of present Texas Central freight depot.

Va., Crozet.—Southern Railway Co., B. Herman, chief engineer, 1300 Pennsylvania Ave., Washington, D. C., and Chesapeake & Ohio Railway Co., F. I. Cabell, chief engineer, Richmond, Va., contemplate improvements to passenger station.

W. Va., Huntington.-Ohio Valley Electric Railway Co. will rebuild portion of barn reported hurned.

## SCHOOLS

Ala., Aliceville,-City in having plans prepared by W. E. Benns, Bessemer, Ala., for school building; brick; pitch and gravel roof: cost \$11,000; proposals may be addressed to C. R. Horton. (Bond issue recently noted voted.)

Ala., Birmingham.—Birmingham College, Dr. J. D. Simpson, president, will rebuild training school building reported burned at loss of \$3000.

Fla., Live Oak.—Committee meeting has been called to consider erection of \$50,000 school building. Address The Mayor.

Fia., Starke. — Bradford County School Board will expend \$20,000 to \$30,000 to erect school building; architect not selected; L. W. Kickliter may be addressed. (Recently noted.)

Ga., Macon.—Board of Public Education will receive bids until March 1, addressed to T. D. Tinsley, chairman of high-school committee, for plans and specifications for high school for Bibb county at Orange St. and Cotton Ave.; site about 200x160 feet; approximate cost \$100,003; bidders requested to confer with C. H. Bruce, superintendent, as to number of classrooms, halls, etc.

Ga., Macon.—Board of Education, C. H. Bruce, superintendent, will erect high-school building; 900,000 cuble feet; ordinary construction; mechanical steam heat; electric lighting; cost \$100,000; architect not selected. (Recently noted.)

Ga., Thomasville,—City will vote March 12 on \$50,000 bond issue for school improvements. Address The Mayor.

Ky., Danville.—Trustees of Caldwell College, it is reported, will expend about \$225,000 for improvements to college; will change name to Kentucky College for Women.

La., Homer.—Parish School Board, J. H. Davidson, superintendent, will erect central high school; three stories; fireproof construction; steam heat; tile roof; cost \$35,000. (Recently noted as to vote on tax to erect school.)

Md., Easton.—Talbot County School Board will erect addition to high school for grammar school grades; size of annex 60x70 feet; mill construction; steam heat; gas lighting; inside toilets; slate roof; cost \$17.000; architect not selected; proposals may be addressed to M. M. Wright; will probably advertise for bids to be received by March 4.

Miss., Hattiesburg.—Mississippi Woman's College, J. L. Johnson, Jr., president, is having plans prepared for administration building to cost \$59,000. (Recently noted.)

Miss., Indianola.—City will erect school; nine rooms and chapel; ordinary construction; slate or tile roof; cost \$20,000; proposals may be addressed to William Garrard. (Bond issue of \$20,000 recently noted voted.)

Mo., Webster Groves,—Directors of Webster Groves School District, High School Bidg., Selma Ave., will receive bids until January 28 for additions and alterations to Webster Groves High School; plans and particulars at office of M. P. McArdle, architect, 1104 Chemical Bidg., St. Louls, Mo.; E. S. Healy, president; F. B. Miller, secretary.

N. C., High Point.—School Board plans to erect school.

N. C., Scotland Neck.—Board of Graded School Trustees, Stuart Smith, attorney, plans to issue \$16,000 of bonds for schools.

N. C., Wake Forest.—Wake Forest College has plans by J. M. McMichael. Charlotte, N. C., for edifice; 100x100 feet; ordinary construction; electric lighting; cost \$40,000; no contract. (Recently noted.)

Okla., Cushing.—City will vote on \$30,000 bond issue to erect high school, Address The Mayor,

Okla., Pawnec.—Bids will be received by Department of the Interior, Office of Indian Affairs, Washington, D. C., until February 21 to furnish material and labor to creet stone schoolhouse at Pawnee Indian School: plans, specifications and instructions on file at office of Supervisor of Construction, Denver, Col.; American Contractor, Chicago, Ill.; Oklahoman, Oklahoman City, Okla.; Phoenix, Muskogee, Okla.; United States Indian warehouses at Chicago, Ill.; St. Louis, Mo., and Omaha, Neb.; Builders and Traders' Exchange, Minneapolis, Minn., and at school at Pawnee; further Information from superintendent of school; F. H. Abbott, acting commissioner.

8. C., Gaffney.—School trustees contemplate issuing \$30,000 of bonds, \$24,000 for site and erection of school, \$3500 to improve Cherokee Avenue and Central schools, and \$2500 to pay indebtedness.

S. C., McRee.—City has plans by Sayre & Baldwin, Anderson, S. C., for school building: two stories: brick: six classrooms and auditorium; bids opened February 11. (Bond issue recently noted.)

Tenn., Nashville.—Society of Jesus purchased 200-acre tract of land for \$125,000 and, it is reported, will expend \$500,000 to erect buildings, etc.; Rev. M. Moynihan, Baronne and Common Sts., New Orleans, La., provincial in charge of educational work in South; Thos. J. Tyne, 1002 Stahlman Bldg., is attorney for order at Nashville.

Tenn., New Market.—G. W. Long, chairman Jefferson County Court, states no tax was levied to erect high school as recently reported.

Tenn., Nashville.—University of the South, Dr. R. E. Fort, dean of medical department, acquired former buildings of University of Nashville and Tennessee Hospital, and will remodel and equip.

Tenn., Paris.—City contemplates voting on bond issue to erect school, etc. Address The Mayor.

Tenn., South Pittsburg.—City will erect school. Address The Mayor.

Tex., Cleburne.—City contemplates election to vote on about \$350,000 bond issue for ward schools, sewers and street paving. Address The Mayor.

Tex., Houston. — School Board plans to erect negro school in Fifth ward; has \$27.-392.48 available.

Tex., Houston. — School District No. 25 voted \$20,000 bond issue for school improvements. Address District School Trustees.

Tex., Lacoste.—City contemplates election to vote on \$10,000 bond issue to erect and equip school. Address The Mayor.

Tex., Lockhart.—Trustees of Lockhart Public Schools contemplate election to vote on \$20,000 bond issue to crect school on campus for white pupils and negro and Mexcan school in another section of city.

Tex., Granger.—City voted \$10,000 bond issue to crect school. Address The Mayor.

Tex., Sherman.—Trustees of Viars Chapel school, east of Sherman, will erect school building.

Tex., Smithville,—School Board contemplates erecting addition to high school.

Va., Abingdon.—Martha Washington College, Dr. Long, president, will erect \$10,000 building.

Va., Charlottesville.—Board of Visitors, University of Virginia, is having plans prepared by Ferguson, Calrow & Taylor, Law Bldg., Norfolk, Va., for educational building; cost \$40,000. (Recently noted.)

Va., Chatham.—Chatham Training School will expend \$5000 to enlarge school; will erect addition to dormitories to provide room for 28 additional students.

Va., Norfolk.—Building and property committee of School Board asked city for appropriation of \$22,000 to enlarge and improve Berkley school, and \$29,000 to improve Lambert's Point school; also plans to expend \$12,000 to enlarge Brambleton school No. 2.

Va., Richmond.—Richmond College trustees, J. Taylor Ellyson, chairman, have plans by Cram, Goodhue & Ferguson, Boston, Mass., and Carneal & Johnston, supervising architects, Richmond, for academic building; 250x40 feet; fireproof construction; hotwater heat; electric lighting; slate roof; cost \$100,000; Carneal & Johnston are taking estimates on all subcontracts. (Recently noted to erect administration, science and refectory buildings.)

## STORES

Ala., Birmingham.—Bert M. Meadows will erect two-story frame building at 26th St. and Madison Ave.; cost \$4000.

Ala., Decatur.—Brock-Spight Grocery Co. will erect store and warehouse at foot of Bank St. W. R. Spight may be addressed.

Ala., Gadsden.-Mrs. J. T. Green will erect brick store building.

Ark., Argenta.—Mercantile Trust Co., trustee, acquired brick business block at 302-10 Main St., and will expend \$5000 for improvements to include new front, etc.; plans by Charles L. Thompson, Little Rock, Ark.

Ark., Bigelow. - C. C. Rankin will erect store building.

Ark., Little Rock.—R. M. Pearson will creet business building on Arch St. between Markham and 2d Sts.

Ark., Pine Bluff.—E. A. Schieker will erect business building; 42x120 feet; two stories; ordinary construction; cost \$12,000. (Recently reported as to cost \$40,000.)

Ga., Atlanta.—Harry G. Poole will erect two-story building at 91 Pryor St.; cost \$25,000.

Ga., Atlanta.-J. S. Lawrence will erect business building; 47x50 feet; brick; tar and gravel roof; cost \$2500.

Ga., Augusta,—Anton Punaro will erect

business building on Campbell St. between Walker and Telfair Sts.; cost \$8200.

Ga., Canton.—Walker & Chase, architects, 533 Candler Bidg., Atlanta, Ga., receive bids until January 27 to erect department store for Jones Mercantile Co.; 120x120 feet; two stories and basement.

Ga., Columbus,—Jordan Company will remodel two three-story buildings at First Ave. and 13th St.

Ga., Seville.—Holt & Walton have not determined plans to erect store to replace burned structure; probably 50x80 feet; (Recently noted.)

Ga., Morven.-Hodges Bros. will rebuild store reported burned.

Ga., Washington.—R. A. Almand will erect two-story building to cost several thousand dollars.

Ky., Lexington.—Willis Grocery Co. will expend several thousand dollars to remodel building at Broadway and Short St.

Ky., Louisville.—Mary G. Keher will expend \$5000 to repair building at 515 W. Main St.

Ky., Middlesboro.—J. A. Thomas contemplates eercting two-story brick business building on Cumberland Ave. between 18th and 18th 8ts.

Ky., Tompkinsville.—Bradshaw & Hagan will rebuild store; fireproof construction; tin roof; plans not definite; no contract. (Recently reported burned.)

La., Grand Cane.—Cook & Douglas will expend \$4750 to erect store building; 48x90 feet; one story; fireproof construction; gravel and tar roof; bids closed. (Recently noted.)

La., Winnfield,—C. II. Elliott opens bids February 10 to rebuild store and hotel build ing recently reported burned. (See "Hotels.")

Mo., St. Louis.—George Schowe will erect two-story store and tenement-house at 4644-46 Easton St.; cost \$8000.

Mo., St. Louis.—E. A. Ellerman has plans by William Wedemeyer, St. Louis, for store building at 25th and St. Angelica Sts.; 30x150 feet. (Recently noted to cost, including site, \$20,000.)

Mo., St. Louis.—Emelia Realty Co. will erect one-story store at 1519 Market St.; cost \$3850.

N. C., Black Mountain. - J. W. McKay will, it is reported, erect business building. N. C., Black Mountain. - Yates & McGuire

are reported as to erect business building.

N. C., Black Mountain,—W. C. Hall is reported as to erect business building.

N. C., Newbern.-G. A. Caton has plans by W. E. Brock. Newbern, for store and apartment-house; 52x67 feet; two stories: brick; steam heat; electric lighting; metaroof; cost \$10,000; no contract. (See "Machinery Wanted.")

Okla., Konawa.—B. J. Autry, Tom Duncan and Charles Miller will erect store buildings: probably six structures, 25x100 feet to 140 feet; stoves; electric lighting; tar and gravel roof; plans will probably be prepared by J. Fauble, Shawnee, Okla.

Tenn., Nashville.-R. T. Wilson will expend \$3500 to remodel brick store at 606-608 Church St.

Tenn., Nashville.—Central Cigar Co. will expend \$3000 to repair building at 321 Union St.; cost \$3000.

Tex., Cleburne.—J. W. Scott will erect building to replace structure recently burned.

Tex., Dallas.—Dallas Dry Goods Co., John R. Cavanaugh, president, is having plans prepared by Brickey & Brickey, Praetorian Ildg., Dallas, for building at Lamar, Monroe and Austin Sts.; 10 stories; 15 acres of floor space; reinforced concrete construction; concrete foundation and roof; pneumatic tube system; fire escapes; automatic sprinkler system; house system of fire riser, etc.; cost \$300,000. (Previously noted.)
Tex., Dallas.—Joe Scottino will erect two-

story brick building at 803 Central St.; cost \$600c.

Tex., Dallas.—D. W. Shanks will expend \$3000 for repairs and additions at 1718 Ervay St.

Tex., Dallas.—G. I. Baldwin will erect addition and garage at 5006 Junius St.; cost \$3009.

Tex., Dallas. — A. A. Jackson is having plans prepared by Lang & Witchell, Dallas, for store building to be occupied by Strickland Furniture Co. on Elm St. near Akard St.; fireproof; cost \$50,000.

Tex., Houston, -W. C. Munn will erect building; details not determined.

Tex., Lacoste.-Conrad Lessberg will probably erect brick business building.

Tex., Palestine.—Messrs. Greenwood will erect business building to be occupied by Swan Furniture Co. at Oak and Houston Sts.; three stories; brick.

Va., Monterey.—Lunsdorf & Slaven will, it is reported, erect store building.

Va., Staunton.—Central Realty Corporation, Herbert J. Taylor, president, has not compared to the contract of t

Tex., Sulphur Springs.—Mrs. L. E. Tomlinson will expend \$3000 for improvements to business building leased by Z. F. Tramel.

Tex., Tyler.—John Durst will erect six one-story brick business buildings on E. Erwin St.

Tex., Waco.—C. M. Hubby is reported as to remodel store building on Austin St. be tween 6th and 7th Sts., to be occupied by F. W. Woolworth Company, New York.

Tex., Waco.—Louis Wiebusch will erect three store buildings on Washington St. between 6th and 7th Sts.; brick; pressedbrick fronts; one story.

Va.. Norfolk.—Granby Realty Investment Co. is reported to have purchased site with frontage of 100 feet on Granby St. to erect stores:

W. Va., Warwood.—Bank of Warwood, C. H. Eberts, cashier, will erect store, bank and office building. (See "Bank and Office Buildings"):

W. Va., Wheeling.—J. E. Morgan will erect building on Bridge St.; one story; faced with white brick; interior of white tile.

W. Va., Williamstown.—Dixon & Wilson will erect business building; 25x100 feet; three stories and basement; ordinary construction; cost \$5000 to \$6000. (Recently noted.)

## THEATERS

Ga., Camilla.—City is having plans prepared for city hall and opera-house. (See "City and County.")

Ga., Washington.—Lyndon Opera House will rebuild burned structure. (Recently reported burned.)

Tenn., Lebanon.—N. E. Scales purchased building in rear of Lebanon National Bank and will remodel for moving-picture theater.

## WAREHOUSES

Ala., I centur.—Brock-Spight Grocery Co. will creet warehouse and store building. (See "Stores.")

Ga., Macon.—Chamber of Commerce is interested in erection of bonded cotton warehouse; probable capacity 10,000 bales; cost \$15,000; J. F. Heard, chairman of committee to promote plans.

Ky., Richmond.—Irvine M. Hume and W. E. Luxon contemplate erection of loose-leaf tobacco warehouse.

La., Baton Rouge,-Holmes & Barnes will erect warehouse.

La., Baton Rouge,—Cohn Flour & Feed Co has plans for wholesale building.

Md., Baltimore.—Joseph Fisher will erect warehouse at 4, 6 and 8 S. High St.; 36x100 feet; ordinary construction; hot-water heat; electric lighting; electric elevator; slag roof; plans being prepared by Louis Levi, ikeal Estate Trust Bidg., Philadelphia, Pa. (Recently noted.)

N. C., Washington. - George A. Phillips will erect warehouse.

8. C., Anderson—Greenville, Spartanburg & Anderson Railway Co., W. S. Lee, vice-president, Charlotte, N. C., will erect four warerooms in rear of freight platform; 40x 100 feet; brick; fireproof roof; cost \$6000 to \$7000 each.

Tenn., Memphis.—George H. Guthrie, Bohlen-Huse Ice Company will erect one-story galvanized-iron storage-house; cost \$5000.

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Tenn., Memphis. — Atkins Saw Co., main office, Indianapolis, Ind., will receive bids until February 15 to erect four-story building at Main St. and Butler Ave.; cost \$65,000.

Tex., Dallas.—Sanger Bros. contemplate erecting warehouse at Lamar and Wood Sts.; 8 or 10 stories; reinforced concrete throughout.

Va., Covington.—Alleghany Milling Co. will rect warehouse; two stories; 60x100 feet.

W. Va., Wheeling.—Ohio & Mississippi Transportation Co., John W. Hubbard, president, contemplates erection of river-front warehouse and elevators.

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## BUILDING CONTRACTS AWARDED

#### APARTMENT-HOUSES

Ala., Birmingham. — Wells Brothers Co., New York, general contractor for Ridgely Apartments to be erected for E. M. Tutwiler 21st St., awarded contract to Nolke-Rich ds Iron Works, Indianapolis, Ind., for sel work on structure; eight stories; steel construction; renaissance style; terra-cotta trimmings; elevators; roof garden paved with tile; reported cost \$500,000; plans by J. E. R. Carpenter, Metropolitan Tower, New York. (Previously noted.)

Mo., St. Louis. — Thomas J. O'Loughlin awarded contract to erect apartment-house and store building recently noted. (See

Tex., El Paso.-Dr. M. O. Wright awarded contract to erect apartment at Montana and Staunton Sts.; three stories; brick and con-crete; 21 apartments; cost \$30,000; plans by H. M. Beutell, El Paso. (Recently noted.)

#### BANK AND OFFICE

Ala., Birmingham.—Jefferson County Sav-ings Bank, Eugene Enslen, president, it is reported, awarded general contract to F. W. Mark Construction Co., Birmingham, to erect bank and office building; 25 stories; 75x100 feet; fireproof; steel frame; exterior of granite and terra-cotta; cost about \$700,000; plans by William C. Weston, Birmingham. (Contract for steel work recently noted awarded to Bergendahl-Bass Engineering & Construction Co., Harris Trust Bldg., Chicago, Ill., and for substructure to F. W Mark Construction Co.)

Ala., Mobile.—Jones & Laughlin Steel Co., Pittsburgh, Pa., have contract for 500 tons of fabricated structural steel for City Bank & Trust Co. building, for which George A. Fuller Company, Fuller Bldg., New York, has general contract; nine stories; 116x50 feet; fireproof; slag roof; cost \$280,000. (Reently noted.)

Fla., Tallahassee.—L. & D. P. Smith, fifth floor Strickland Bldg., Valdosta, Ga., have contract to furnish bank fixtures and interior marble and tile for Exchange Bank.

#### CHURCHES

Ark., Ashdown.-Christian Church awarded contract to S. S. Hite, Ashdown, to erect

## CITY AND COUNTY

Fla., Bushnell-Jali, etc.-Sumter County Commissioners awarded contract to erect jail and courthouse recently noted. (See Courthouses.")

Tex., Belton-Jail.-Bell County Con sioners awarded contract to Southern Structural Steel Co., San Antonio, Tex., for steel cells and heating equipment for county jail; cost \$13,500.

## COURTHOUSES

Fla., Bushnell.—Sumter County Commissioners awarded contract to J. F. Jenkins & Co., Ocala, Fla., to erect courthouse and jail; courthouse to be 106x70 feet; three stories; fireproof vaults; brick construction; Spanish style of architecture; cost \$49,759; cost of jail \$16,114. (Previously noted.)

Mo., Linneus.—Linn County Commissioners awarded contract to Ray & Son, Louisiana, Mo., to erect courthouse; 60x80 feet; three stories; stone and brick; fireproof; steam heat; tile and copper roof; cost \$75,000; plans by Shanneman & Van Trump. Kansas City, Mo. (Recently noted.)

## DWELLINGS

Ark., Hoxie.—Ethel L. Shutes awarded contract to Solon Crook to erect proposed dwelling; frame; hot-air heat; cost \$6000.

Fla., Anna Maria.—John Trice, president of Citizens' Bank & Trust Co., Tampa, Fla., awarded contract to W. N. Davis of Manatce county, Florida, to erect dwelling; main liv-ing-toom, 18x52 feet; cost \$7000 to \$8000.

Ga., Atlanta.-W. H. Hughes awarded contract to M. J. Carson to erect two one-story frame dwellings at 577-579 Chestnut St.; cost \$2200

Ga., Atlanta.-John A. Hynds awarded contract to J. L. Heirs to erect two-story frame dwelling at 232 Myrtle St.; cost \$6500.

Ga., Summerville.—Summerville Cotton Mills awarded contract to W. P. Bradford, Rome, Ga., to erect 10 tenant-houses.

La., New Orleans.-Moses F. Hollander awarded contract to Arthur P. Boh to erect residence at St. Mary and Laurel Sts.; cost La., New Orleans.—Crescent City Home-stead awarded contract to Arthur P. Boh to erect residence at Camp and St. Andrew Sts.: cost \$3320.

La., New Orleans.—Emile A. Davidson awarded contract to A. C. Babin to erect residence at Cortez, Scott and Palmyra Sts.; cost \$4350.

La., New Orleans. — Mutual Homestead awarded contract to R. W. Markel to erect residence at Pine, Nelson and Broadway Sts.: cost \$4012.

Md., Baltimore.-Thomas F. Mullan, 4011 Md., Baltimore.—Thomas F. Mullan, 4011 York road, awarded contract to H. Foutz, 4007 York road, Baltimore, to crect 10 dwell-lags on south side of Belgian Ave. between Wilson St. and Ellerslie Ave.; two stories; brick; slag roofs; cost \$15,000; plans by A. L. Blatchley, Rose Hill, York road, Balti-

Md., Baltimore.-Mrs. Katherine Baldwin awarded contract to Cowan Building Co., 106 W. Madison St., Baltimore, Md., to re-build structure recently burned; brick; Co-lonial style; plans by Mottu & White, 322 N. Charles St., Baltimore, Md.

Md., Ruxton.-J. Carroll Brown, 206 E Md., Ruxton.—J. Carroll Brown, 206 E.
Biddle St., Baltimore, Md., awarded contract
to Willard E. Harn Company, Inc., 213 N.
Calvert St., Baltimore, Md., to erect cottage
on Berwick Ave.; two and a half stories;
frame-stucco; 31x36 feet; slate roof; hardwood floors; hot-water heat; electric lights;
cost \$6500; plans by Walter M. Gieske, 66
Gunther Bidg., Baltimore, Md.

Miss., Laurel.-Dr. Seay awarded contract to Edward Russell, Laurel, to erect resi-

Miss., Laurel.—Dr. Brent awarded contract to Edward Russell, Laurel to erect residence. Tenn., Memphis.—C. K. Moetsinger awarded contract to J. M. Harris to erect nine-room brick residence at 872 Washington Ave.; cost

Tenn., Memphis.—R. C. Lenti awarded contract to Memphis Building Co., Memphis, to erect one-story stone veneer cottage at 961 Polk St.; cost \$12,000.

Tex., Houston.-W. C. Winnie awarded contract to R. W. Stewart to erect bungalow at 4th and California Sts.; one and a

Tex., Port Arthur.-Chaison Townsite Co. Beaumont, Tex., awarded contract to C. F. Piveto to erect 11 six-room cottages.

Tex., Midway.—Donnell Creamery Co., J. R. Donnell, general manager, Belton, Tex., awarded contract to erect five-room and bath bungalow. (See "Misecellaneous Enter-(See

Va., Portsmouth.—St. Paul's Catholic Church awarded contract to R. K. Revell to erect parochial residence on High St. be-tween Dinwiddle and Washington Sts.; stone reported cost \$15,000. (Previous ander "Miscellaneous Structures,") front:

Va., Richmond.—G. N. Shuman awarded contract to O. C. Peers to erect three-story brick residence at 2346 W. Grace St.; cost \$15,000

Va., Richmond.-H. C. Beck awarded con tract to Walter Douglas to erect two-story brick store and dwelling on Cary St, between West and Auburn Sts.; cost \$2980.

## GOVERNMENT AND STATE

D. C., Washington-Department of Commerce and Labor.—Barber & Ross, 614-22 11th St. N. W., Washington, have contract to fabricate 700 tons of steel shapes for \$425,. ooo building for Department of Commerce and Labor, general contract for erection of which was awarded by Victor J. Evans, Vic-tor Bldg., to George A. Fuller Co., Munsey Bldg., Washington; after plans by Milburn, Heister & Co., Union Savings Bank Bldg., Washington. (Recently noted.)

## HOTELS

Ala., Birmingham,-Roden Hotel Co, awarded contract to F. W. Mark Construction Co., Birmingham, to erect hotel; 12 stories; 350 rooms; 150x140 feet; cost \$650,000; plans by William C. Weston, Birmingham. (Recently noted.)

La., New Iberin,—Felix Patout awarded contract, it is reported, to C. E. Reynolds to erect Hotel Frederick; 110x120 feet; fire-proof; hot-water heat; electric lights and elevators; asbestos composition roof; cost \$50,000; plans by Nolan & Torre, Hennen Bldg., New Orleans, La. (Previously noted.)

Miss., Laurel. - W. W. Beatty awarded ontract to W. M. Norris & Son to erect two additional stories to Chronicle building as annex to Southern Hotel.

#### MISCELLANEOUS

Ala., Mobile—Home,—M. H. Roberts, Mo-bile, has contract to erect Home for Aged at Monterey and Elizabeth Sts., to be con-ducted under supervision of Little Sisters of the Poor; three stories; pressed brick; fire proof; 300 beds; hot and cold baths.

Ark., Hardy-Clubhouse.-R. C. Huston & Co., Cotton Exchange Bidg., Memphis, Tenn. have contract to erect Wahpeton Clubhouse near Hardy; cost \$25,000.

Fla., Miami - Library. - Woman's Club awarded contract to St. John Construction Co., Miami, to erect library; 127x28 feet; one story; reinforced concrete construction; tile roof; cost \$10,000; plans by H. N. Mundy, Miami. (Recently noted.)

Md., Rockville — Barn. — W. C. Watkins awarded contract to W. E. Hendrickson, Monrovia, Md., to rebuild barn previously noted burned; 45x72 feet; rough sawed lumber; galvanized corrugated sheet steel roofing; cost \$2500. (See "Machinery Wanted.")

C., Asheville-Hospital.-Highland Hos pital awarded contract to J. W. Cowan to erect addition to hospital according to plans by Dr. Robert S. Carroll; three and four stories; stone and concrete; metal roof; slow-burning construction; 45 rooms; cost

#### RAILWAY STATIONS, SHEDS, ETC.

Ark., Canden.—St. Louis, Iron Mountain & Southern Railway Co., J. R. Stephens, chief engineer, St. Louis, Mo., will expend \$7000 to erect passenger station; 100x22 feet; one story; brick; stoves; tile roof; total cost, including track facilities, \$18,000; contract recentry noted awarded to Continenta Building & Construction Co., St. Louis, Mo

Mo., Kansas City.—I chi Metal Products Co., Nicholson and Mon\*gail Aves., Kansas City, has contract to construct air ducts for City, has contract to construct air ducts for Union Station, requiring 150 tons of galvanized sheet iron; E. D. Hornbrook, Kausas City, has subcontract for installing this portion of heating and ventilating system at cost of \$50,000; will circulate washed air through 27 complete systems of ducts by means of electrically-driven fan. (George A. Fuller Company, Fuller Bidg., New York, has general contract for building, which has previously been fully described.)

N. C., Concord.—Southern Railway Co., B.

N. C., Concord.-Southern Rallway Co., B. N. C., Concord.—Softnerh Railway Co., B. Herman, chief engineer, 1390 Pennsylvania Ave. N. W., Washington, D. C., awarded contract to J. A. Jones, Charlotte, N. C., to erect passenger station; brick; stone trimmings; tile roof; 128x32½ feet. (Recently

## SCHOOLS

Ky. Nicholasville. — Building committee awarded contract to E. S. Stamler, Lexing-ton, Ky., to erect school; 17 classrooms, chapel, cloakrooms, principal's room, etc.; basement divided into playrooms; cost \$28,000. (Previously noted to have voted \$39,000 bond issue for this purpose.)

Tex., Yancey,—City awarded contract at \$6198 to J. H. Tweedy, Aransas Pass, Tex. to erect brick school.

## STORES

Ala., Gadsden.—Bud Hood awarded con-tract to Gadsden Brick Co., Gadsden, Ala., to erect store building, using in part walls of Sullivan stable; two stories; brick; 35x100

Aln., Gadsden. — Moragne & McCarver awarded contract to Gadsden Brick Co., Gadsden, to erect store building on Chestnut St. between 3d and 4th Sts.; brick; 15x50

La., Baton Rouge,-Baton Rouge Realty Co. (Joseph Gottleib and others) awarded contract to J. C. Petty, New Orleans, La., to erect brick store building; plans by Emile Weil, Whitney-Central Bank Bidg., 'New Oreans. La.

Mo., St. Louis. - Thomas J. O'Loughlin Mo., St. Louis. — Thomas J. O'Loughlin awarded contract to United Building Co., 890 Chestnut St., St. Louis, to erect store and apartment-house: two buildings, 42x80 feet and 118x47 feet; ordinary construction steam heat; electric lighting; composition roof; cost \$85,090; plans by W. F. Sheehan, 890 Chestnut St., St. Louis. (Recently noted.)

Tex., Eagle Lake.-Mrs. William J. Franz awarded contract to G. W. Kelth to erect two brick business buildings on Main St.

Tex., Eagle Lake.-Lee Hughes awarded contract to erect two brick business build-

Tex., Greenville.-W. L. & J. P. Beckman Tex., Greenville.—W. L. & J. P. Beckman mond, stated that have plans by and awarded contract to J. F. Demning, Mexia, Tex., to erect store and hotel building recently noted; 40x163 feet; the amount of mill construction; hot-water heat; gravel clogged the grates.

and asbestos roof; cost \$10,000, (See "Machinery Wanted.")

Tex., Mission,-Dr. J. T. Caldwell awarded entract to erect two-story brick business

Tex., Seguin .- Guaranty Loan & Trust Co. nwarded contract to Tadlock Bros., Seguin, to erect business building; 27x90 feet; the roof; cost \$10,000; plans by Atlee B. Ayres, San Antonio, Tex. (Recently noted.)

Tex., Wichita Falls.—Otis T. Bacon awarded contract to H. Ammann to erect business building: 100x150 feet; mill construction; natural-gas stoves; electric lighting; gravel roof; cost \$22,000; plans by Glenn Bros., Wichita Falls. (Recently noted.)

Va., Norfolk. - Alvah H. Martin awarded contract to R. H. Richardson & Son, Norcontract to R. H. Richardson & Son, Nor-folk, to erect building at Granby and Wash-ington 8ts, for Wills-Smith-Crall Company; six stories, basement and mezzanine; 90x10 feet; steel and fireproof construction; plans by Lee & Diebl, 408 Seaboard Bank Bidg., Norfolk, (Recently noted.)

Va., Richmond.-H. C. Beck awarded con-tract to Walter Douglas to erect store and dwelling. (See "Dwellings.")

Va., Richmond.-J. H. Lewis awarded con tract to Swan & Swan to creet two-story brick store and dwelling at 1603 W. Cary St.; cost \$3000.

#### THEATERS

La., Baton Rouge,—Louisiana Amusement & Realty Co. (Joseph Gottleib and others) awarded contract to J. C. Petty, New Orleans, La., to erect moving-picture theater; plans by Emile Weil, Whitney-Central Bank Bldg., New Orleans, La.

## WAREHOUSES

Ala., Birmingham.—Hopson & Son award-i contract to Charles W, Hall to erect archouse to replace burned structure; plans by R. E. Posey, Brown-Marx Bidg., Birming-

ham.

Ark., Pine Bluff.—Westbrook Grain & Commission Co. awarded contract to Kaucher-Hodges & Co., Memphis, Tenn., to erect 100x 200-foot brick and reinforced concrete warehouse, etc., recenty noted. (See "Flour, Feed and Meal Mills.")

and Meal Mills.")

Fia., Jacksonville.—Union Terminal Co. awarded contract to Moffatt Machinery Manufacturing Co., Charlotte, N. C., for II elevators of 5000 pounds capacity for warehouse; structure, for which general contract was awarded to Turner Construction Co., II Broadway, New York, will be five stories. (Recently noted.)

Md., Baltimore.-John E. Hurst & Co., 23 to 45 Hopkins Pl., awarded contract to West Construction Co., Knickerbocker Bidg., Bal-timore, to erect warehouse at 116-118 W. Lombard St.; seven stories; 40x130 feet; rein-forced concrete enclosed in brick walls; fire-proof; cost about \$70,000. (Recently noted.)

Md., Baltimore.—William G. Nolting awarded contract to Cowan Building Co., 108 W. Madison St., Baltimore, to erect two additional stories to warehouse at Howard and Henrietta Sts.; brick; 41x82 feet; plans by Wyatt & Nolting, Keyser Bidg., Baltimore.

Wyatt & Nolting, Keyser Bldg., Baltimore, 8. C., Lake City.—J. D. King. Winston-Salem. N. C., awarded contract to erect warehouse; brick. Tex., Fort Worth.—Fort Worth Warehouse & Transfer Co. awarded contract to B. F. & C. M. Davis, Fort Worth, to erect proposed warehouse; 50x140 feet; three stories; fire-proof construction; enclosed elevator; rein-forced concrete covered with patented roof-ing; cost \$30,000; plans by B. G. Leake, Fort Worth. (Company recently noted incorpo-Worth. (Company recently noted incorporated with \$50,000 capital stock.)

Va., Richmond.—Henry Wallerstein has plans by and awarded contract to A. L. Hunt to erect warehouse on west side of 6th St. between Byrd and Arch Sts.; two stories; brick: cost \$10,000.

## Thomas Elliptic Grate Bars.

Some of the advantages of the use of Thomas Elliptic Grate Bars, manufactured by Thomas Grate Bar Co., Birmingham, Ala., are indicated by the results of recent experi-ences with them. Chief Engineer R. T. Carter of the Lexington Hotel, Richmond, Va. used these bars under an old boller that had been giving some trouble and found that the service was immediately improved. It was service was immediately improved. It was reduced, that hes draft was required, and that no difficulty was found in producing the required pressure of steam. A. W. Anderson, manager of the Virginia Laundry at Richmend, stated that a reduction of 30 per cent, was made in his coal bill by the use of these bars, due in part to the great reduction in bars, due in part to the great reduction in the amount of clinker which formerly

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## RAILROAD CONSTRUCTION

#### RAILWAYS

Ala., Mobile.-The Mobile & Baldwin Co. ty Railroad Co., with authorized capital stock of \$50,000 and \$25,000 paid in, has been porated to build an electric line from e to Bay Minette, Ala., about 25 miles, and later to extend from there to Pensacols Fla., about 50 miles more; directors, W. B. Miller of Chicago, M. H. Miller and John P. Lowell of Mobile; J. M. Pilcher and J. R. Cross of Fairhope, Ala.

Argenta.-J. W. Carpenter of Corsihas been granted a franchise ana, Tex., cana, rex., mas need graded a transmise of lay electric railway tracks on several streets in Argenta, and he is quoted as saying that an interurban railway will be built from Argenta eastward. Destination not stated, but Lonoke is about 20 miles, Hazen 38 miles and Devall's Bluff. Ark., about 45 miles directly east.

Ark., Little Rock.-W. C. Nixon, vice-president St. Louis & San Francisco Railroad, St. Louis, says that the company does not conconstruction of a line from Newport to Little Rock, Ark., thus denying recent press report

Fla., Hastings.-The Palatka-Hastings Interurban Railway Co, says it is not ready to announce its plans. This r to the recently published report that it would build an interurban railway from Hastings to Paiatka, Fla., 10 miles. C. A. Dupont is president and F. J. H. von Engelken, secretary, at East Palatka, Fla.

Fla., Port St. Joe.—The Port St. Jock & Terminal Railway Co., recent oock & Terminal Railway Co., recently toted, will, it is reported, build a terminal tine 12 miles long and connect with the spalachicola Northern Railroad. L. H. Apalachicola Dimmitt, vice-president and general manager of the latter, can give information.

Ga., Rochelle,-R. S. Talmadge, contractor. is reported to have completed the extension of the Ocilla Southern Railroad to Rochelle. J. A. J. Henderson, Ocilla, Ga., is president.

Ga., Moultrie.-Survey is reported just completed for a railroad from Moultrie to Ga., about 25 miles, and which is d by W. E. Aycock of Moultrie and About eight miles of lumber railroad Melgs, Ga owned by Aycock & Myers will be utilized.

Ky., Ashland.-The Ohio Valley Electric Railway Co, has decided to build the contemplated extension from Ashland to Rus-sell, Ky., about 4½ miles. W. W. Magoon, Huntington, W. Va., is general manager.

Ky., Cumberland Falls.—H. C. Brunson, Cumberland Falls, says that "Eastern par-ties" are figuring on building an electric a Religious and the Religious and the Religious Religiou sing the water-power at the Falls to gen

Paducah.-The stockholders of the Kentucky Southwestern Railway, Light & l'ower Co, have voted to issue \$1,500,000 of bonds for the construction of its first dion from Faducah southeast to Murray, about 40 miles. Work will begin in the ing. The directors are H. C. Rhodes, Ky., about resident; John D. Smith, secretary; R. H. cott, treasurer; F. M. Smith, general manger; W. A. Calhoun, consulting engineer; W. Thompson and L. Rubel, all of Faducah : Harry W. Davis of Wilmington, Del. ; nry Robertson of Hampton, T. H. Coch-n of Marion, L. H. Randolph of Bandana, L. Kennedy of Lola, Dr. J. T. Sutton of Meiber, C. H. Ellis of Sturgls, Wright Mc-Daniel of Salem, J. B. Traill of Birdsville, W. L. Whitnell of Murray, C. N. Crawford of Lynn Grove and S. G. Ross of Fancy Farm, Ky.

La., New Orleans .- O. T. Maier, vice-presiand general manager New Orleans Southern & Grande Isle Railway, says: "We do not contemplate any immediate railroad construction." This refers to a recent press report that the company proposed to extend from a point about 20 miles from New Or-leans to Grande Isle, La., which would re-quire about 30 miles of new road.

reported in Md., Bond.-Survey is ress for a railroad from Bond, Md., to Con fluence, Pa., about 25 miles, along the Savage and Youghlogheny rivers. The Bond Lumber Co., Bond, Md., may be able to give information.

Mo., St. Joseph.-C. F. Enright of Joseph is reported promoting plans to build a railroad from St. Joseph northeast to Cainesville, Mo., about 75 miles, and survey is being made.

Mo., Kansas City.-Tracklaying is reported of the Kansas City, Clay County & St. Joseph | from \$230,000 to \$280,000.

Electric Railway. The overhead work will soon be done and the line put in operation.

rsonville. - It unced in Hendersonville that Charles A. Carlson of Red Bank, N. J., wi cently purchased the Hendersonville tion Co., has decided to build the co plated interurban railway from Henderson-ville to Asheville, N. C., about 20 miles.

Okla., Bartlesville.-The Higgins Company of Coffeyville, Cherryvale and Independence Kans., will, it is announced, extend its in-terurban railway south from Independence to Caney, Kans., thence to Dewey and Bartlesville. Okla., about 40 miles.

Knoxville.-Edward E. Thorpe of Tenn. New York is quoted as saying that surveys are being made for the Kentucky, Tennessee & Alabama Railroad, which was promoted under the name of the Appalachian Rail road, from Williamsburg, Ky., to Chatta-nooga, Tenn., 183 miles, with branches and connecting lines to Knoxville, Harriman, Nashville and Birmingham. Estimated cost of construction, from \$5,000,000 to \$5,000,000.

H. F. Lee of Chicago is president, with offices now in the East Tennessee National Bank Bldg. at Knoxville. Mr. Thorpe is general manager. Others are secretary-treas-urer, J. W. Prevost of Knoxville, Tenn., and chief engineer, A. C. Olney of Birmingham, Ala.

Tenn., Nashville.-L. F. Lonnbladh, chief engineer and superintendent of the Tennes-see Central Raliroad Co., says that there are no extensive improvements or extensions contemplated at present. This refers to a late statement credited to the receivers of road to the effect that as rapidly enlarged.

- Receivers' certific the amount of \$350,000 have 1 ized for the Tennessee Central Railroad, of which \$150,000 are to be used for repairs to roadway and bridges, etc. II. B. Chamber-lain and W. K. McAllster are receivers at Nashville Tenn.

Tex., Austin.—The Missouri, Texas Railway is contemplating, Austin.-The Missouri, Kansas construction of a l Lockhart, Beville Maxwell. Each route is about 30 miles lo A bridge over the Colorado, it is said, will cost \$400,000. A. M. Acheson, Dallas, Tex., is chief engineer.

Tex., Beaumont. - Lee H. Parker, repre senting the Stone & Webster Engineering Corporation, Boston, Mass., is reported to arrived at Beaumont to for the Beaumont-Port Arthur inter urban railway.

Tex., Dallas. - The monthly statement of construction progress on the Southern Trac-tion Co.'s line from Dallas to Waco says that 68 miles of roadbed are completed ready for ballast, with 34 miles of roadbed more than 85 per cent. completed, this being in addition to the roadbed between Ferris and ontract for tracklaying has en awarded, and the work is to be finished by August 1, 1913.

Tex., Dallas.-Survey has just been of pleted by Finnell, Ayres & Parsons, neers, Tuscaloosa, Ala., for a railroad neers, Tuscaloosa, Ala., for a railroad south from Dallas via Ferris and Kerens to Teague, Tex., about 100 miles. It is understo it will probably be built soon. W. T. Stock-ton of Kerens, Tex., and others are inter-ested. W. R. Parsons is chief engineer, and the entire firm are consulting engineers.

Tex., Galveston. — Contract for the new mion station of the Gulf, Colorado & Santa Fe Railway (Santa Fe system) in Galveston is awarded to the American Construction Co. of Houston, it is announced. Douglas Bur-nett of Houston, president of the construction company, is quoted saying that work will begin inside of a week. F. Merritt, Gal-veston, Tex., is chief engineer for the railroad.

& Mexico is reported to have completed its branch from Heyser to Austwell, Tex., 171/2 miles, and to have placed it in operation.

Tex., Marshall.—The recent press report hat the Marshall & East Texas Railway could build an extension from Winsboro to Mt. Pleasant, Tex., is officially denied. Such an extension is not contemplated.

Tex., San Antonio,—The San Antonio, Uvalde & Gulf Railroad Co. is reported to have authorized construction of a new division from Campbellton to Mathis, about 50 miles. A. R. Ponder, San Antonio, Tex., is vice-president and general manager. Charter will be amended to increase capital

San Antonio.-The directors of the San Antonio & Austin Interurban Railroad San Antonio & Austin Interurban Rairroad Co., capital \$25,000, are thus: Vories P. Brown, W. B. Tuttle, Jesse D. Oppenheimer, Sam C. Bell, all of San Antonio; H. G. Henne of New Braunfels, C. L. Hopkins of an Marcos, and A. J. Eilers of Austin, Tex. line will be about 80 miles long via New Braunfels and San Marcos.

Tex., Roby.—The Estacado & Gulf Railroad Co., recently purchased by L. C. Eastland of Oklahoma City. Okla., and associates, is reported reorganized with Mr. Eastland as president; L. H. McCrea, first, and R. L. Lovett, second vice-president; J. McWhirter, secretary; O. C. Walker, treasurer, and H. C. Hughes of Sweetwater, Tex., general at-torney. There is 12 miles of graded roadbed from Roby to McCauley, with seven miles of track laid, and it is now proposed to com plete the track.

Tex., Waco.-Charter will be asked, it is stated, within a week or ten days for the Waco, Mooreville & Temple Interurban Rail-way Co., capital \$590,000, to build a line connecting the three points about 35 miles. It will also touch Robinson, Bell Falls and Blevins. The Business Men's Club at Waco may be able to give information.

Va., Portsmouth.-The Seaboard Air Line. according to reports in financial circles, con-templates floating about \$5,000,000 of securi-ties to provide for betterments, extensions, etc., during the next year. W. D. Faucette is chief engineer at Portsmouth, Va

Richmond.-The Southern Railway unces that extensive improvements will be made to its line from Richmond to West Va., 39 miles. Heavy ralls will be the track reballasted, structures laid, the track reballasted, structures Livermore St. and thence south to strengthened, and the entire roadway put in Park. T. H. Tutwiler is president.

condition to handle heavier traffic. B. Herman is chief engineer maintenance and structures at Washington, D. C.

W. Va., Beckley.—The Piney River & Paint reek branch of the Chesapeake & Ohio Railway is reported opened for service from Beckley Junction to Cranberry, six miles. The Loup Creek branch on the Hinton di-vision has been extended from Price Hill Junction to Mt. Hope, W. Va., one mile.

W. Va., Williamson.—The Williamson & Pond Creek Railroad, a branch of the Norfolk & Western, is reported operating with the following stations: Williamson. Creek, Morocoal and McVeigh, Ky., the lat ter being about 12 miles from Williamson.

#### STREET RAILWAYS

Ala., Birmingham.—The City Commission has granted to the George C. Kelley Com-pany, engineer, First National Bank Bidg., Birmingham, and its associates, an extensive street-railway franchise covering from 115 to 130 blocks, and providing that the first line built shall be on Avenue F to Elmwood Cemetery. Mr. Kelley is quoted saying that the money is all ready to build the sys-tem, and work on the plans will begin im-mediately. They must be submitted to the city within four months and construction must begin within two months after their (See Manufacturers Record Jun approval 27, 1912.)

Tenn., Memphis. - The Memphis Street Railway Co., it is announced, will soon begin construction of two extensions, one from the Central Ave. line out Barksdale St. to Young Ave., to Cooper St., and the other from the Florida St. line on Trigg Ave. to Livermore St. and thence south to Riverside

## MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind requested to consult our advertising columns, and if they cannot find what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted. and in this way s

office of Chief Signal Officer, Clarke, Captain, Disbursing Officer, Vington, D. C., receives bids until Feb Wash 3 for furnishing eight aeroplane t as per general specifications No. 562-B; draw-ings 881-A and 881-B also apply.

Automobile Manufacturers .- I. Tey wells, Odessa, Russia, wants to correspond with automobile manufacturers doing good work at reasonable price.

Boiler-scale Compound. - See "Pipe vering, etc.

Boller.-W. L. & J. P. Beckman, Green ville, Tex., want prices on hot water boiler for heating plant.

Boiler .- Blowers Lime & Phosphate C. Blowers, president, St. Petersburg, Fla-ants prices on boiler, about 125 horse-power.

Bolts.—Carl R. Liverman, Roxobel, N. C., wants to correspond with manufacturers who make tee and special headed bolts to order

Bridges .- Panola county will let contracts February 3 at Batesville, Miss., for con-structing following bridges: Farley (new) bridge over McIver Creek, six miles west of Batesville: steel (new) bridge across Yarrough's difch, four miles west of Como; eel (new) bridge across Bynum Creek; w steel bridge over Hays Creek north of Hays Bros.' store, and app to steel bridge at Reeder's Ferry; R. Draper, clerk.

Bridge Construction.-II. S. Engineer Office, Galveston, Tex. Proposals for constructing four highway swing bridges acros inland waterway between Brazos River and Matagorda Bay, Texas, received until 12 M. February 20, then publicly opened. Informa-tion on application. C. S. Riche, Lleutenant-Colonel, Engineers.

Building Materials.-Blowers Lime Phosphate Co., A. C. Blowers, president, St. Petersburg, Fla., wants prices on metal work and brick for two drykilns, six feet in diameter and about 20 feet high.

Building Materials .- August Barbay, Plaquemine, La., wants prices on building materials, including 250 barrels each of cement and lime, 300 cubic yards sand, 80 yards of gravel, 25 tons acme plaster, 15 boxes creo-sote, 55 squares metal shingles, 175 building brick, 180 yards of skylight, exported metal

sets, structural steel, cast fron and mill

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Building Materials. — Anna Maria Beach Co., G. Bean, president, Tampa, Fla.,

Building Materials.—Cave Springs Planing Mill. Cave Springs, Ga.— building materials, sliding Planing Mill. Cave Springs, Ga., wants building materials, sliding doors, tram track, etc., for 64x80-foot fireproof building.

Cable.-Proposals received by Trustees of Water-Works and Improvements Bonds. Jacksonville, Fla., until 3 P. M. February 4 for furnishing or furnishing and Installing certain items of lead-colored underground electrical cables in accordance with plans and specifications on file in office of chief engineer of underground electrical construc-tion, Engineer Bldg., Main and Orange Sts., Jacksonville; specifications cover both rub ber and varnished cloth insulation; proposal requested covering three different proposi-tions as follows: First, for furnishing delivered f. o. b. cars at Jacksonville several items of said cables as called for by said specifications; second, separate prices on unit basis for furnishing and installing said cables in ducts and manholes laid and con-structed by said board; third, alternate price tage basis for installing said on percentage basis for installing said cables in said ducts and manholes; certified check, payable to W. M. Bostwick, Jr., in sum of \$1000; additional copies of plans, etc., may be had on application to chief engineer underground electrical construction on deposit of \$25.

Trade, h., Canning Machinery, Royal-Riverton Board of Trade Naylor, secretary, Front Royal, Hugh E. prices on tomato cannery equipment and sup-

Canning Machinery.

Cars.-Blowers Lime & Phosphate Co Blowers, president, St. Petersburg, Fla., wants prices on two steel dump cars.

Claw Bars, Bits, etc.-Proposais ceived at office of General Purchasing Officer, Isthmian Canal Commission, Washing ton, D. C., until 10.30 A. M. February 11, then opened, for furnishing claw bars, bits, chair blocks, tackle blocks, steel cable, cable clips, emery cloth, grease cups, chains, dies, pad-locks, chisels, hack-saw frames, hasps, shovonkey-wrenches, nails, files, steel tapes, brass tubing, bronze, galvanized

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sheet steel or iron, track bolts, boat mpikes, wire, sheet zinc, poultry netting, oilers, signal flags, memorandum books, waste baskets, brushes, mop heads, sponges, chipped soap, candle wicking, babbitt metal, yellow metal, marline, carbide, turpentine, linseed, meat's-foot, creesote and fish oils, burnt umber, raw sienna, black jacket enamel, cab enamel, lampblack, flour, lime and white pine or sugar pine lumber. Blanks and gening the processing statements and gening the statement of the s pine or sugar pine tumber. Buanas and gen-eral information relating to this circular (No. 757) obtainable from this office or offices of assistant purchasing agents, 24 State St., New York city; 614 Whitney-Central Bldg., New Orleans, and 1086 North Point St., San New Orleans, and 1986 North Point St., San Francisco; also from U. S. Engineer offices in Seattle, Los Angeles, Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Miwaukee, St. Paul, Chattanooga, Louisville, Mobile and Galveston: Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Commercial Club, Tacoma. F. C. Boggs, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

Columns. — Bailey Bros., Luray, Va., wants prices on four large wooden columns for church building; specifications as fol-lows: Four fluted columns with composition lonic cap, 20 feet long over all, 28-inch base and 24-inch top; state lowest price f. o. b. Luray, from what wood made and time of shipment if order is given.

Compressed Composition Fiber.—Ry-alls Machine Co., Inc., Charlottesville, Va., wants addresses of manufacturers of com-pressed composition fiber material for mak-ing noiseless gears.

Concrete Forms.—Sanford Wilson, Bailey, N. C., wants information on use of ce ment in concrete forms for steps, sidewalks osts, floors, etc.

Concrete Mixer.—E. A. Owenby, 331 14th St., Miami, Fia., wants catalogues, etc., on concrete mixer.

Cotton-rope Machinery, etc.—C. R. M., care Manufacturers Record, Baltimore, Md., wants information on manufacture of cotton rope and cotton twine, material and machinery used, prices on machinery, etc.

machinery used, prices on machinery, etc.

Crane. — Proposals endorsed "Proposals for Locomotive Crane" received at Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 A. M. February 21, then publicly opened, for 15-ton locomotive crane, delivered and creeted at Navyyard, Portsmouth, N. H. Specifications obtained on application to bureau or to compared to the property of propagated and property of propagated and propa mandant of navy-yard named. H. R. Stanford, chief of bureau.

Crushing Machinery.—Blowers Lime & Phosphate Co., A. C. Blowers, president, St. Petersburg, Fla., wants prices on crusher to crush raw shell lime, about 40 tons per day; also engine to operate crusher.

Crushing Machinery, etc.-W. C. Cro-Crushing Machinery, etc.—W. C. Crozer, consulting engineer, 1211 Chambertain Ave., Chattanooga, Tenn., wants information and prices on gasoline and oil traction engines; portable crushers of two to five cubic yards capacity per hour; stationary crushers of 200 to 500 tons daily capacity; gasoline oil steam and electric machinery to line, oil, steam and electric machinery to operate same; also on pulverizing machinery for limestone and quarts.

Cupola. — Pennsylvania Equipment Co., West End Trust Bidg., Philadelphia, Pa., wants small second-hand cupola, about 4 feet 6 inches diameter by 16 feet high to charging floor.

Dairy Equipment.-W. C. Rockville, Md., wants prices on dairy barn

Dredging.—Department of Public Im-provements, subdepartment Harbor Board, Baltimore, Md. Proposals received until 11 A. M. January 29 for dredging; proposals must be addressed to ity Register, City Hall; certified check for \$1000, payable to Mayor and City Council; for specifications apply at Harbor Board office, O. F. Lackey, Harbor Engineer; James H. Preson, Board of Awards

Dump Wagons.—L. F. Hobbs, Box 483, Norfolk, Va., wants six or eight first-class second-hand dump wagons; 1½-yard, with or without team and harness. Give descrip-tion and location first letter.

Electric Fixtures.-F. M. Savage, Bir-ningham, Ala., wants prices on electric fix-

Electric-lighting System.—Office of Commissioners of Distirct of Columbia. Washington, D. C. Proposals received until 2 P. M. January 28 for constructing extension to ward building and dining-room, including installation of conduits, wires and fixtures, for electric-light system at Home for the Aged and Infirm at Blue Plains, D. C. Blank forms, specifications, etc., obtain-C. Blank forms, specifications, etc., obtainable from chief clerk, Engineer Department,

Room 427, District Bldg., Washington, D. C. Separate proposals may be submitted for electric-lighting system; deposit of \$10 required. Cuno II. Rudolph, John A. Johnston, William V. Judson, Commissioners,

Electrical Machinery. - See "Crushing Machinery etc

Electrical Machinery.-Russell Manufacuring Co., Alexander Cly, Ala., wants second-hand, 50 kilowatts, alternating cur-rent, helted generator, 3-phase, 60-cycle, 600-volt; also exciter and switchboard for same; first-class condition; give prices.

Engine .- See "Crushing Machinery."

Eugines .- See "Crushing Machinery, etc." Engines, etc.—Office of secretary Missis sippi River Commission, 1311 Liggett Bldg.

sippi River Commission, 1811 Liggett Bidg..

8t. Louis, Mo. Proposals in triplicate for construction and delivery of twin-screw engines and propelling machinery received until noon February 7, then opened; specifications, blank forms of proposals, etc., furnished upon application; Clarke S. Smith, Major, Corps of Engineers, United States Army.

Evaporating Plant .- R. H. Garrett, Rocky Mount, Va., wants steam evaporating

plant for molasses.

Feed Mill.-W. B. Woolf, Keyser, W. Va., wants addresses of companies making specialty of feed mill construction and equip-

tion of Virginia, 623 American National Bank Bidg., Richmond, Va., will want prices on alfalfa and general farming machinery.

Gasoline Engines.—See "Crushing Machinery, etc."

Grading.-Proposals received at office of Commissioners of District of Columbia, 427 District Bidg., Washington, D. C., until 2 P. M. January 27 for grading certain streets aggregating about 47,000 cubic yards; blank forms of proposals, spelifications, etc., ob-tainable from chief cierk, Engineering De-partment, 427 District Bldg.; Cuno H. Ru-

Hardware.-Charlotte Wagon & Auto Co., 26 E. 6th St., Charlotte, N. C., wants prices on carriage and wagon hardware.

Henting Plant.—George A. Caton, New-ern, N. C., wants prices on steam-heating

Heating Plants.—F. M. Savage, Bir-ningham, Ala., wants prices on furnaces.

Hoisting Machinery.-E. A. Owenby, 31 14th St., Miami, Fla., wants catalogues, tc., on hoisting machinery.

Holsting Machinery.—Blowers Lime & Phosphate Co., A. C. Blowers, president, St. Petersburg, Fla., wants prices on hoisting engine to pull two-ton car up incline grade of about 50 per cent., 150 to 200 feet long; may use oll engine.

may use oil engine.

Ice Pinnt,—N. Gaillard Walker, architect and engineer, Rock Hill, S. C., wants quotations, with cuts and specifications, for fiveton raw-water ice plant, can system complete; first, for electric power; second, for gas or gasoline engine power; price f. o. b factory, March delivery.

Locomotive.—Room 1953, 50 Church St., New York, wants 30 to 35-ton standard-gauge saddletank locomotive; good condition.

Locomotive Car.—Manistee & Repton Railroad Co., J. A. Kauffman, general man-ager. Monroeville, Ala., wants small steam motor car; 20 or 25 passengers; old Baldwin dummy type preferred; could use secondhand car.

Lumber.-Charlotte Wagon & Auto Co. 26 E. 6th St., Charlotte, N. C., wants prices on dry eak, poplar and green lumber and

Lumber, Metal, etc.-Navy Department Lumber, Metal, etc.—Navy Department, Bureau of Supplies and Accounts, Washington, D. C., receives bids until February 11 for furnishing 12,000 feet white ash, 5800 pounds lignum-vitae, 2500 feet of mahogany, 6000 feet white oak for bending purposes, 90,000 feet No. 2 yellow pine and 5000 feet yellow poplar, schedule 5141; 12,000 pounds sulphuric acid, schedule 5138; 7000 feet wash deck hose, schedule 5140; 1568 sheets 20x28-inch sheet tin, schedule 5139; delivery Navyyard, Norfolk, Va.; also receives bids until February 11 for furnishing miscellaneous lot high-speed flat drills, 132 locomotive taper or February 11 for furnishing miscellaneous lot high-speed flat drills, 132 locomotive taper or futed reamers, schedule 5140; delivery Navyyard, Charleston, S. C.; also receives bids until February 11 for furnishing 40-inch boring and turning lathes, schedule 5129; miscellaneous lot cast-iron retorts, etc., and 3930 pounds monel metal, schedule 5137; delivery Navy-yard, Washington, D. C.; for copies apply to navy pay office nearest navy-rard. yard.

Manufactures.—H. Drawe & Co., Frank-furt, Hanauerlandstrasse 27, Germany, want

to correspond with manufacturers of various products, including patented articles and notions; view to general agency in Ger-

Marine Stores .- See "Oils, Paints, etc." Merchandise. — James Crosier, Walteville, W. Va., wants entalogues and prices on general merchandise; especially interested in catalogues of 5, 10, 25 and 50 cent goods.

Metal Equipment—Bids received until 11 A. M. January 24 for furnishing metal equipment for R. M. C. fireproof office build-ing, Charleston, S. C.; plans and specifica-tions on file in office of William P. Cantwell, County Supervisor Charleston County.

Metal Lumber,—G. A. Miller, Room 28 Petteway Bldg., Tampa, Fla., wants addresses of firms handling metal lumber.

Milling Machinery.-See "Feed Mill." Mining Equipment.—Deep Fork Coal Mining Co., C. H. Kellogg, president, Henry-etta, Okla., wants prices on hoisting en-gines, Shaker screens, scales, boilers, pumps

Engines .-- American Refining Co., Okmulgee, Okla., wants addresses of manu-facturers of internal combustion engines using distillate, or heavy oil, for fuel. facturers

Oils, Paints, etc.—A. & D. Dmetrindes, 4, Ada Han, Galats, Constantinople, Turkey, want addresses of manufacturers of mineral oils, paints, copper paints, varnishes, marine stores and general shipchandlers' articles;

Packing Plant Machinery.—Tampa Packing Co., H. T. Lykes, president, Tampa. Fin., opens bids about March I for machin-ery for packing plant.

Paint.—Charlotte Wagon & Auto Co., 26 Z. 6th St., Charlotte, N. C., wants prices on

Paper Cartons .- Glover Machine Works Marietta, Ga., wants heavy paper cartons for shipping purposes.

Paving .- Proposals received until 2 P. M January 24 by Board of Commissioners for Street Improvement District No. 218 (Thayer Ave., from Rock Island right of way to 12th St.), Little Rock, Ark., for grading, draining, curbing, guttering, paving with macadam or other materials; stone furnished contractor on board cars; plans and specifications at offices of Ford & Mc-Crca, engineers; proposals must be scaled and addressed to Gus K. Jones, chairman; certified check for \$250.

Pipe Covering, etc.—L. Arnold, 470 Central Ave.. East Orange, N. J., will want pipe covering; also compound for removing boiler

Piping .- Ana Maria Beach Co., G. Bean resident, Tampa, Fla., wants prices on uantity of drainage pipe.

Pulverising Machinery .- See "Crush-

ing Machinery, etc."

Pumps.—Board of Control, Norfolk, Va., receives bids until January 25 for furnishing, delivering and installing four electrically-driven centrifugal sewer pumps, including electrical apparatus, switchboards, etc.; pumps 1000 gallons capacity per minute each; plans and specifications with W. T. Brooke, City Engineer; certified check 5 per cent amount of bid. ount of bid.

Revetment .- U. S. Engineer Office, Kan Revetment,—U. S. Engineer Office, Kansas City, Mo. Proposals for constructing about 12,000 feet standard revetment on Missouri River, about 302 miles below Kansas City, two miles below Bernheimer and two miles above New Haven, Mo., received until noon February 17, then publicly opened. Information on application. Herbert Deakyne, Major, Engineers.

Revetment.-U. S. Engineer Office, Kansas City, Mo. Proposals for constructing about 12,000 feet standard revetment on Mis-souri River, about 262 miles below Kansas City and one mile out from Mokane, Mo. received until noon February 17, then pub-licity opened. Information on application. rert Deakyne, Major, Engineer

Road Constnetion .- Bids received by Road Constnetion.—Bids received by Court of (Elmore) County Commissioners at Court House, Wetumpka, Ala., until noon February 17 for grading, draining and grav-eling one mile and draining four miles of Tuscaloosa road; \$400 certified check; W. S. Keller, State Highway Engineer.

Road Construction.-Hearne Precinct of Robertson County, Hearne, Tex., opens bids February 11 to construct 60 miles of gravel and sand-clay road; W. H. Ely, official

Roofing .- W. C. Watkins, Rockville, Md., wants prices on galvanized corrugated sheet

Safe .- L. Ard, Hemingway, S. C., wants

Safe, etc. - Farmers' Exchange Bank,

Nickelsville, Va., wants prices on safe, vault and other bank fixtures.

Safe, etc.—First Bank of Crossville, loyce M. Rains, cashier, Crossville, Ala., cants prices on safe, vault and other bank

Sand Machinery, etc.-Oran Speer, Alvord, Tex., wants machinery for screening, drying and loading sand.

Senting.—Second Baptist Church, Florence, S. C., wants seats. Address W. F. Herring, chairman, board of trustees.

Sewage-disposal Plant. - Board of Bond Trustees, C. G. Memminger, chairman receives bids until 10 A. M. January 25, Lake-land, Fla., for materials and labor in connection with constructing sewage-disposal plant; certified check for \$500,

Shipchandlers' Supplies.-See "Oils,

Steel Stairways .- W. E. May, Jones boro, Tenn., wants addresses of manufac-turers of Iron and steel stairways.

Stone. — Mississippi River Commission, First and Second Districts, U. S. Engineer Office, Custom-house, Memphis, Tenn. Proposals for furnishing and loading 10,000 cubic yards of riprap stone on Government barges received until noon January 31, then publicly paned. Information on samplestion E. M. pened. Information on application, E. M. Markham, Major, Engineers.

Syrup Machinery.-Sec "Evaporating

Syrup Machinery, etc.-L. C. Morrow, Pierce, Fla., wants catalogues and prices on cane syrup making machinery; also on machinery for canning and for making jelly and preserves.

Telephone Equipment.-War Depart. ment, office of Chief Signal Officer, Washing-ton, D. C., W. L. Clarke, Captain. Disbarsing Officer, receives bids until February 1 for fur-nishing miscellaneous lot of telephone equipment, including three power switchboards and distributing frames for Signal Corps switchboard rooms, two telephone power switchboards, each type Nos. I. 2 and 4, three terminal cabinets and two station switch panels; send for specifications

Telphone Equipment.-W. L. & J. P. Beckman, Greenville, Tex., want prices on telephone switchboard and telephones for local and long distance lines.

Traction Engines.—I. Teywells, Odessa, Russia, wants to correspond (view to repre-sentation) with manufacturers of traction engines operated with black naphtha (or petroleum oil).

Vehicle Plates,-Proposals received at Vehicle Plates.—Proposals received at offices of Commissioners of Sinking Fund, City Hail Annex Louisville Ky, until 12 M. January 29 for furnishing about 8000 metal license plates enamel and nickel-plate, for vehicles; also 400 motorcycle tags; sample of plate to accompany bids; plates delivered not later than April 1; bond required; for further information apply to commissioners, J. M. Terry, treasurer and secretary.

Water-works.-H. C. Rogers, Malone, Tex., opens bids February 1 to construct ex-tension to water-works; daily capacity 20,000 gallons; erect power-house, construct 80-foot galvanized-fron tower and 80-foot reservoir with capacity for 50,000 gallons; McCall-Moore Engineering Co., engineer in charge.

Wire Spring Teeth .- Carl R. Liverman Roxobel, N. C., wants to correspond with manufacturers of coil wire spring teeth of No. 6 to 9 gauge.

Woodworking Machinery. - Penn Sumter Lumber Co., Sumter, S. C., wants new or second-hand small hog for grinding planing mill edgings; about size of Mitz & Merrill No. 1 C.

Woodworking Machinery. - A. E. Dickson. Box 948, Mobile, Ala., wants to correspond with manufacturers of machinery for making clothespins (4 inches), broom handles (standard size) and washboards.

## Sandford Riley Stoker Co.

The Sanford Riley Stoker Co., Ltd., of Worcester, Mass., has been recently organized for building and selling the new Riley self-dumping underfeed stoker. It is stated that the company is composed of well-known business men with ample capital. The officers are: President, R. Sanford Riley, formerly president of the American Ship Windowski fleers are: President, R. Sanford Biley, for-merly president of the American Ship Wind-lass Co.; treasurer, Aldus C. Higgins; secre-tary and counsel of the Norton Company, Worcester, Mass.; secretary, Geo. N. Jepson, works manager of the Norton Company, Among the stockholders are C. L. Allen, treasurer and general manager of the Nor-ton Company, and Fred H. Daniels of the American Steel & Wire Co.

# FINANCIAL NEWS

The MANUFACTURERS RECORD invites information about Southern financial matters items of news about new institutions, divi dends declared, securities to be issued, open gs for new banks, and general discussions financial subjects bearing upon Southers

## Review of the Baltimore Market.

Office MANUFACTURERS RECORD,

Baltimore, Md., January 22. Baltimore, Md., January 22.

In the Baltimore stock market during the past week United Railways common sold from 24½ to 23½; do. incomes, 62½ to 62%; do. funding 5s, 86¾ to 88; do. notes, 102; do. 4s, 84½ to 85; United Electric Light & Power 4½s, 93; Consolidated Gas, Electric Light & Power common, 118 to 120, with last sale at 118¾; do. preferred, 117 to 119½; do. 4½s, 89 to 90; do. notes, 99%; Consolidated Gas 4½s, 95½; Seaboard Air Line common, 19 to 18¾; do. 4s, stamped, 85%; do. adjustment 5s, 76% to 76; Mt. Vernon-Woodberry Cotton Duck 5s, 74½ to 75; G.-B.-S. Brewing common, 2½; do. incomes, 8.

to 75; G.-B.-S. Brewing common, 2½; do. incomes, 8.

Bank stock sold as follows: Merchants-Mechanics Bank, 30¾ to 31½, with last sale at 31; Farmers and Merchants', 50; Exchange, 161; Commerce, 31; Citizens', 42¾; Marine, 43½.

Mercantile Trust sold at 155 to 156; Union Trust, 65 to 66½; Maryland Casualty, 103 to 105; American Bonding, 89 to 80½; Continental Trust, 219 to 218; Fidelity & Deposit, 172 to 182, reacting, with last sale at 176½; Munsey Trust, 100¾ to 101; Fidelity Trust, 240 to 240½; Maryland Trust common, 122½; Baltimore Trust, 157¼ to 159.

100¾ to 101; Fidelity Trust, 240 to 240½; Maryland Trust common, 122½; Baltimore Trust, 157¼ to 159.
Other securities were traded in thus: Baltimore Traction 5s, 105¾; Baltimore City 3½s, 1945, 89½; do. do. 1930, 90; do. do. 1940, 90½; do. do. 1930, 90; do. do. 1940, 90½; do. do. 1957, 97; do. do. 1926, W. L., 100; do. do. 1958, 96½; do. 5s, 1916, 101¾ to 102½; Consolidation Coal, 103; do. refunding 5s, 93¼ to 93½; Houston Oil common, trust certificates, 18¼ to 20½, with last sale at 19½; do. preferred, trust certificates, 66½ to 67¾; do. dividend certificates, 83 to 85; Northern Central Railway & Power 5s, 94½; Virginia Centuries, 87; Atlantic Coast Line rights, 2¾ to 3½; Baltimore Elecetric 5s, stamped, 97 to 99¾; do. preferred stock, 44 to 47; Chicago Railways 5s, 100½ to 100; Fairmont Coal 5s, 96¼; New Orleans, Mobile & Chicago 5s, 96¼; New Orleans, Mobile & Chicago 5s, 86½; Maryland Electric 5s, 97½ to 97¾; Norfolk Railway & Light 5s, 100; New Orleans-Great Northern 5s, 97½ to 97¾; Norfolk Railway & Light 5s, 100; New Orleans-Great Northern 5s, 65; United States Steel common. 62½; Fairmont & Clarksburg Traction 5s, 101; German Fire Insurance, Baltimore, 18¾ to 19; Lexington Railway 5s, 94½; Pennsylvania Water & Power common. 67½ to 72, with last sale at 70¾; Knoxville Traction 5s, 104½; Macon, Dublin & Savannah 5s, 90½; Georgia & Alabama Consolidated 5s, 1047½; Milwaukee Refunding 4½s, 94; Norfolk & Atlantic Terminal 5s, 93; Baltimore, Sparrows Point & Chesapeake 4½s, 95¾; Coal & Iron Railway 5s, 100; Gary & Interurban Collateral 6s, notes, 98½; Alabama Consolidated Coal & Iron 5s, 78; Baltimore Brick 5s, 83; Washington, Baltimore & Annapolis 5s, 88 to 877½; Atlantic Coast Line of Connecticut 5-20s, 90; Norfolk Railway & Light common, 26; Atlantic Coast Line Consolidated 4s, 94¾; Pennsylvania Water & Power 5s, 92½; Maryland 4s, 1928, 98½; do, do, 1922 and 1927, 98½; Atlantic Coast Line 5s, 104¼; Baltimore & Ohio stock, 104½; do, preferred, 86; Washington, Baltimore & Annapolis preferred, 36; Anacostia & Potomac 5s, 99; do, guaranteed, 101; Baltimore & Ohio rights, ¾; Florida Southern 4s, 90½; Columbia & Greenville 1st 6s, 104; Macon Railway & Light 5s, 99; Davidson Chemical 6s, 100.

## SECURITIES AT BALTIMORE.

		_	
Last	Quotations for t	he Week	Ended
	January 22.	, 1913.	
	Ballanna Stooks	Dor Rid	Ankad

Granting ,		
Railroad Stocks. Par.	Bid. A	sked.
Atlantic Coast Line100	128%	***
At. Coast of Conn100	2561/2	260
Ga. Sou. & Fla. 1st 1'fd100	***	94%
Sa. Sou. & Fla. 2d Pfd100	791/2	
Seaboard Com	185%	
Seaboard Pfd100	461/8	
United Rys. & Elec. Co 50	231/8	23%
Virginia Ry. & Power Com100	***	551/2
Bank Stocks.		
Bank of Baltimore100		164
Bank of Commerce 15	3114	***

	Citizens' 10	42	43	Lock
	Exchange100		162	Lock
	Farmers & Merchants' 40	49	50	Lora
	First National	144	146	Marl
	Howard 10	14		Mills
	Marine 30	43		Molle
	Maryland 20	22	***	Mons
	National City100	110		Mona
	Union100	135	140	Newl
	Western 20		3974	Nine
	Trust. Fidelity and Casu-		30 /8	Norr
	alty Stocks.			Orr (
	American Bonding 25	89	8934	Paco
	Baltimore Trust100	158	160	Paco
		28	291/4	Park
	Continental Trust50	216	219	Park
		176	1761/2	Pelze
	Fidelity & Deposit	238		Poe !
	Fidelity Trust100	119	1001	Saxo
1	Maryland Trust100	-	1221/2	Spart
	Maryland Trust Pfd100	100	124	Trion
ł	Maryland Casualty 25	103	105	Tuca
	Merc. Trust & Dep50	155%	156	Union
	Munsey Trust100	101	102	Union
1	Union Trust 50	661/2	67	Victo
	U. S. Fidelity & Guar100	184	195	Warr
I	Miscellaneous Stocks.			Warr
ł	Baltimore Electric Pfd	46	47	Wash
ì	Canton Company100	135	***	Wash
ı	Con. Gas, Elec. Lt. & P. Com. 100	118	1191/2	Watt
	Con. Gas. Elec. Lt. & P. Pfd100	119	11936	Whit
	Consolidation Coal100	103	105	Willia
	GBS. Brewing Co100	21/6	***	Wisca
	George's Creek Coal100		1	Wood
	Mer. & Min. Trans. Co. V. T 100	60	70	Wood
	Railroad Bonds.			W 000
	Alabama Midland 5s	10516	107	
	Atlantic Coast 1st 4s	9416	9434	
	At, Coast Conv. Deben, 4s	9834	9916	
	At. Coast Conn. 4s, Cfs., 5-20s	91	9214	Th
	At. Coast S. C. 4s	95	96	
	Baltimore & Harrisburg 5s		104%	stree
		9134	93	ninet
	Charleston & West, Car. 5s	10434	00	umer
			96	Janu
	Coal & Coke Railway 5s			
١	Coal & Iron Railway 5s	1023/	10414	policy
ĺ	Col. & Green. 1st 6s	100.4	9046	ann i
l	Florida Southern 4s	10434		\$33,4
	Georgia & Alabama 5s	104.4	64	000 :
ĺ	Georgia & Florida 5s	5 5 5	63-8	000

	New Orleans, M. & C. 5s	8616	87
	Potomac Valley 1st 5s		10716
	Richmond & Danville 6s	10214	-44.72
	Scaboard Air Line 4s	20076	8534
	Seaboard 4s, Stamped	8514	
	Seaboard Adjustment 5s	761/4	763/
	Seaboard & Roanoke 5s		105
	Wash., Balto. & Annap. 5s		88
ı	Western N. C. Con. 6s		
		101/2	10-78
ı	Street Railway Bonds.		0011
ı	Anacostia & Potomac 5s		991/4
ı	Anacostia & Potomac 5s, Gtd		101
İ	Atlanta Con. Street Railway 5s	104	1041/2
ı	Augusta Railway & Electric 5s	102	***
ı	Balto., Sp. Pt. & C. 41/28	95	95%
ı	Baltimore Traction 1st 5s	10312	10/1/2
١	Baltimore Traction (N. B.) 5s		
ı			104
İ	Charleston Con. Electric 5s	97	98
I	City & Suburban 5s (Balto.)	10334	105
ı	City & Suburban 5s (Wash.)	103	***
ı	Danville Traction 5s	94	94%
ł	Fairmont & Clarksburg Trac. 5s		1011/2
1	Knoxville Traction 5s	104	10434
1	Lexington Railway 1st 5s	941/4	9434
1	Macon Railway & Light 5s	9834	9914
ı	Maryland Electric Railways 5s	97%	99
I	Memphis Street Railways 5s	****	
J	Norfolk & Portsmouth Trac. 5s	19114	91%
Į	Norfolk Railway & Light 5s	100	1001/4
Į	Norfolk & Atlantic Ter. 5s	9214	94
1	United Railways 1st 4s	8434	
1	United Railways Income 4s		623/4
1	United Railways Funding 5s	8634	87
1	Virginia Railway & Power 5s	9416	95

Miscellaneous Bonds.		
Ala, Con, Coal & Iron 5s	70	78
Atlanta Gas 1st 5s	1021/2	105
Baltimore Brick 5s	***	831
Baltimore Electric 5s, Stp	99	100
Consolidated Gas 5s	106%	1071
Consolidated Gas 41/28	94	951
Con. Gas, Elec. Lt. & P. 41/28	8934	90
Con. Gas. Elec. Lt. & P. Notes	997%	100
Consolidation Coal Ref. 5s	93	931
Consolidation Coal Ref. 41/28	9134	921
Fairmont Coal 1st 5s	96	963
GBS. Brewing 1st 4s	46	461
Mt. Vernon-Woodb'y Cot. Duck 5s.	741/2	75
Penna, Water & P. 5s	9214	931
United Elec. Lt. & P. 41/28	921/2	931

## SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by William &

Quotations Furnished by Willia	
Glenn, Broker, Spartanburg, S.	
for Week Ending January 2	
	Asked
Abbeville Cotton Mills (S. C.) 70	75
Aiken Mfg. Co. (S. C.)	55
American Spinning Co. (S. C.)	162
Anderson Cotton Mills (S. C.)	48
Anderson Cot. Mills (S. C.) Pfd	100
Arcadia Mills (S. C.) 90	***
Arkwright Cotton Mills (S. C.) 99	100
Belton Mills (S. C.) 100	110
Brandon Mills (S. C.)	90
Brogon Mills (S. C.)	60
Chiquola Mfg. Co. (S. C.)	160
Clifton Mfg. Co. (S. C.) Pfd 97	100
Clinton Cotton Mills (S. C.)	120
Courtnay Mfg. Co. (S. C.)	93
Dallas Mfg. Co. (Ala.) 99	75
D. E. Converse Co. (S. C.)	
Drayton Mills (S. C.)	90
Eagle & Phenix Mills (Ga.)	106
Easley Cotton Mills (S. C.) 162	175
Enoree Mfg. Co. (S. C.) 25	62
Enoree Mfg. Co. (S. C.) Pfd 85	100
Gaffney Mfg. Co. (S. C.) 72	75
Gainesville Cotton Mills (Ga.) 72	80
Glenwood Cotton Milla (S. C.) 100	***
Graniteville Mig. Co. (S. C.) 135	145
Greenwood Cotton Mills (S. C.) 57	60
Grendel Mills (S. C.) 90	100
Hartsville Cotton Mill (S. C.) 160	***
Henrietta Mills (N. C.) 160	175
Inman Mills (S. C.)	100
King Mfg. Co., J. P. (Ga.) 80	85
Lancaster Cotton Mills (S. C.) 130	***
Lancaster Cot. Mills (S. C.) Pfd. 97	100
Langley Mfg. Co. (S. C.)	75
Laurens Mills (S. C.)	125
Limestone Mills (S. C.) 155	160
same and a second from the second second	

Lockhart Mills (S. C.)	. 0
Lockhart Mills (S. C.) Pfd 9	
Loray Cotton Mills (N. C.) Pfd	. 9
Marlboro Cotton Mills (S. C.)	-
Mills Mfg. Co. (S. C.) 90	
Mollohon Mfg. Co. (S. C.)	. 9
Monaghan Mills (S. C.) 100	)
Monarch Cotton Mills (S. C.) 105	
Newberry Cotton Mills (S. C.) 125	130
Ninety-Six Cotton Mills (S. C.) 130	150
Norris Cotton Mills (S. C.)	
Orr Cotton Mills (S. C.) 90 Pacolet Mfg. Co. (S. C.) 94	93
Pacolet Mfg. Co. (S. C.) 94	
Pacolet Mig. Co. (S. C.) Pid 95	
Parker Common	
Parker Pfd	63
Pelzer Mfg. Co. (S. C.)	120
Poe Mfg. Co., F. W. (S. C.) 102	
Saxon Mills (S. C.)	
Spartan Mills (S. C.) 110	128
Trion Mfg. Co. (Ga.)	130
Trion Mfg. Co. (Ga.) Tucapau Mills (S. C.) 300 Union-Buffalo (S. C.) 1st Pfd. Union-Buffalo (S. C.) 2d Pfd	356
Union-Buffalo (S. C.) 1st Pfd	60
Union-Buffalo (S. C.) 2d Pid	18
Victor Mfg. Co. (S. C.) 110	115
Warren Mfg. Co. (S. C.)	
Washington Mills (Va.)	
Watts Mills (S. C.)	
Whitney Mfg. Co. (S. C.)	125
Williamson Mills (S. C.) 120 Wiscassett Mills (N. C.)	
Woodruff Cotton Mills (S. C.) 95	100
Woodside Cotton Mills (S. C.)	100
Woodside Cotton Mills (S. C.)	100

## Home Insurance Statement.

e Home Insurance Co., 56 Cedar et. New York, in its one hundred and teenth semi-annual statement issued ary, 1913, shows surplus as regards y-holders \$19,151,755, and total assets 106,434. The cash capital is \$3,000, and reserve premium fund \$12,341,-420, while the surplus over contingencies and all liabilities, including capital, is \$14,351,755. Investments by the company include State and city bonds, the market value of which is \$6,270,246; railroad bonds, \$8,388,700; railroad stocks, \$10,-702,230; besides other securities. bridge G. Snow is president; Frederic C. Buswell and Clarence A. Ludlum, vicepresidents: Charles L. Tyner, vice-president and secretary; Areunah M. Burtis, ecretary; Howard P. Moore, Henry J. Ferris and Vincent P. Wyatt, assistant cretaries.

## FINANCIAL CORPORATIONS.

Ala., Crossville.-Official: The First Bank of Crossville is approved; capital \$20,000. Directors and incorporators: Ulay W. Black of Georgiana, president; Dr. S. P. Smith, vice-president; Boyce M. Rains, cashier; G. W. Justice, E. B. Jones and J. E. Black, all of Crossville. Business is to be out January 1.

Ala., Decatur.-The Title Abstract Co. is reported to have filed articles of incorpora-tion; capital \$25,000, with \$15,000 paid in.

Ala., Decatur.—Official: Bank of Conterce incorporated; capital \$200,000; C. Harris, president; W. B. Shackelfor Harris, president; W. B. Shackelford, cashier. Offices will be in the Knights of Pythias Building.

Ark., Marion.—Official: The Marion Abstract & Loan Co., capital \$10,000, is incorporated by S. V. Neely, R. J. Southall, L. P. Berry, E. J. Berry, Hugh Haden, Joseph Mosby and H. A. McGee. Business has be-

D. C., Washington.-The Federal National Bank is reported to have made application for charter; capital \$500,000; surplus \$125,000. John Poole will be president and N. H. Shea John Poole will be president and N. H. Shea vice-president. Organizers: N. H. Shea, Ralph W. Lee, J. J. Darlington, Walter A. Brown, John H. Clapp, Frank B. Noyes, Wilton J. Lambert, Myer Cohen, John L. Newbold, Byron S. Adams, John Poole, C. B. Rheem, Leon S. Tobriner and Arthur D. Marks. Temporary offices will be at 1408 G St. N. W. Business has begun.

Fla., Dunedin.-The Bank & Trust Co. Fla., Dunedin.—The Bank & Trust Co. of Dunedin, capital \$20,000, has organized with the following officers: President, H. W. Bivens, present cashier of the Bank of Clearwater; J. M. McClung of Dunedin, vice-president, and Henry B. Earthman of Clearwater, cashier. Directors: J. M. Mc-Clung, Ezra P. Young and Walter Bull of Dunedin, Henry W. Bivins of Clearwater, A. C. Clewis and Major D. T. Conoley of

Fla., Jacksonville. - The National Investment Co., capital \$225,000, is reported incorporated by D. U. Fletcher, Jacksonville; A. D. Smith and R. E. McManara, Washington,

Fla., Jacksonville, - The American Trust Co. is reported chartered and business is ex-pected to begin about February 15; capital \$200,000. Offices will be in the Florida Life Insurance Co. Bldg. Officers; Fred W. Hoyt, president; John H. Powell, vice-president; Arthur T. Williams, secretary, and W. O. Boozer, treasurer; directors, B. W. Blount, R. V. Covington, J. A. Crawford, David H. Doig, D. M. Flynn, Frank S. Gray, Morgan V. Grees, Lee Graham Fred W. Hoyt. V. Gress, Lee Graham, Fred W. Hoyt, Archer S. Hubbard, Cary A. Hardee, John E. Har-ris, Charles W. Kinne, Edward W. Lane, Jackson Mizelle, Charles H. Mann, John H. Powell and Arthur T. Williams.

Fla., Pensacola.-Reported chartered: First State Bank of Pensacola; capital \$19,900; in corporators, Emory Martin, W. T. Walling, James S. Wilson of Pensacola; C. D. Norton of Big Cabin and F. M. Adams of Vinita.

Fla., Pensacola.-The Bankers' Syndicate is reported chartered to sell and deal in bonds of all kinds; capital \$250,000. A.

Fla., Stuart.—A new bank is reported established at Stuart with \$15,000 capital.

Fla., St. Augustine.—The St. Johns County Abstract Co., which succeeds the company organized by J. H. Slater, is reported incorporated with \$15.00 capital. Officers: W. W. Dewhurst, president, and Charles G. Oldfather, secretary and manager.

Ga., Atlanta.—The Citizens' Savings Bank is reported to have begun business with a capital and surplus of \$110,000. George W. Parrott is president. (See Manufacturers Record, November 28.)

Ga., Macon.—The Solomon Realty & Trust Co., capital \$5000, with privilege of increas-ing to \$50,000, has made application for char-Petitioners, Maitland Solomon, S. mon, Sr., L. M. Solomon.

Ga., Macon.-Official: The firm of Stetson Ga., Macon.—Official: The firm of Stetson & Rodgers, to act as agents for fire insurance companies, is incorporated and chartered; capital \$1500; organizers, J. D. Stetson, 312 Georgia Life Bldg.; L. J. Smith and E. W. Stetson, Citizens' National Bank, Macon, Ga. Business is to begin February 1.

Ky., Bowling Green.—The Southern Ken-tucky Title Co., capital \$5900, is reported in-corporated by A. C. Dulaney, C. R. Maddux and W. W. Mansfield.

Ky., Bowling Green. - The Warren National Bank of Bowling Green, capital \$100,000 (to succeed the Warren State Bank of Bowling Green) is reported being organized; J. R. Campbell, C. Roemer, J. M. Williams, T. O. Helen and J. N. Russell, directors: G. Duncar Milliken, attorney, correspondent, Bowling Green, Ky.

Ky., Corbin.-The Citizens' National Bank s reported being organized; capital \$25,00 D. F. Brown. spondent. Corbin J. W. Hood, D. R. Riddell, J. R. Floyd and D. D. Taylor, directors.

Ky., Nickelsville.—Official: The Farmers' Exchange Bank chartered; capital \$15,000; organizers, James F. Sutton. A. Odle, C. W. Bond, G. A. Bond, I. M. Daugherty and C. A.

La., Morgan City.-Official: The People State & Savings Bank, capital \$40,000 paid in, began business January 2. Oscar Zenor is president.

La., New Orleans.—The New Orleans Casualty Co. is reported to have organized with the following directors: Marcus Walker, cashier Interstate Trust & Banking Co., New Orleans, La.; J. Allen Barnett, Baidwin, La.; John Deblieux, Plaquemine, La.; Isaac C. Enochs, Jackson, Miss.; H. B. Hewes, Jeanerette, La.; L. M. Pool, New Orleans, La.; R. N. Sims, Donaldsonville, La.; E. G. Swartz, J. F. Wigginton, Bowie, La.; Frederic Wilbert, Plaquemine, La.; W. W. Brown, Camden, Ark.; C. S. Williams, Patterson, La.; Geo. J. Glover, New Orleans, La.; F. Salmen, Slidell, La.; H. Brownell, New Orleans, La.; J. L. Dantzler, Moss Point and Gulfport, Miss.; Walter Broach, Meridian, Miss.; J. S. Otis, Logtown, Miss.; Gus Drews, Morgan City, La.; Edwin Shelby, New Orleans, La. La., New Orleans.-The New Orleans Cast

La., New Orleans.—The Banking Trust Co. has made application for charter; capital \$1,000,000; directors, Johnston Armstrong, R. F. Broussard, Jules M. Burguieres, R. H. Downman, W. H. Grunewald, W. Morgan Gurley, Arthur B. LaCour, O. LaCour, F. A. Maddox, John May, Wm. Pfaff, E. A. Pharr, A. P. Pujo, R. N. Sims, with the said W. Morgan Gurley as vice-president-general manager and Arthur B. LaCour as treas-urer, the remaining officers to be elected by the board.

Md., Baltimore.-The Munsey Trust Co. capital \$1,000,000, has begun business. E. L. Norton, president; R. Lancaster Williams, Ernest Roberts, vice-presidents; William M. Baker, secretary; Ellicott H. Worthington,

[For Additional Financial News, See Pages 74, 75 and 76.]

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creas-char-S. M. tetson insur-char-Stet-h and Bank,

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E. G. Fred-rown, erson, L.; F. w Or-t and idian,

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E. L. liams, m M. agton,

South and Water Sts., BAUTIMORE, MD. DOUGLAS H. THOMAS, President. JNO. B. RAMSAY, V.-P. and Chm. Bd. of Dir. WM. INGLE, Vice-President. JOHN B. H. DUNN, Cashier.

Merchants-Mechanics National Bank

Capital \$2,000,000 Deposits \$21,670,000 Surplus and Profits \$2,175,000) nts of Banks. Bankers, Corporations and Indi-

We invite correspondence

## THE FIRST NATIONAL BANK OF KEY WEST, FLA.

I'nited States Depository and Disbursing Agent.

Agent.
Capital - - - \$100,000
Surplus and Undivided Profits - \$40,000 A general banking business transacted. Special attention given to collections.

# INVESTMENT SECURITIES

Southern Stocks and Bonds Municipal and Corporation Cotton Mill Stock a Specialty WM. S. GLENN, Broker, SPARTANBURG. S. C.

# JOHN NUVEEN & CO.

1st Nat. Bank Bldg., CHICAGO

We purchase SCHOOL, COUNTY and MU-NICIPAL BONDS. Southern Municipal Bonds a Specialty. Write us if you have bonds for sale.

## **Delaware Trust Company**

WILMINGTON, DELAWARE
INCORPORATING under broad, liberal, safe
and stable Delaware laws. A fully equipped
lepartment for proper organization and regstration of corporations.
BANNING AND TRUST department gives
pecial attention to out of town customers'
counts.

accounts.

IIILE DEPARTMENT examines and guarantees title to realty throughout Delaware.

REALTY DEPARTMENT has sites for manufacturing industries. Modern Methods of management of property.

Dynard T. Canby, President,
J. Ernest Smith, V.-Pres. and Gen. Counsel,
Wm. G. Taylor, Treasurer,
Harry W. Davis, Secretary.
W. W. Pusey, 2d Title and Real Estate Officer.

H. B. Wilcox, President 'Blanchard' Randall, V.-Pres.
Wm. S. Hammond, Cashier
Saml. W. Tschudi, A. Cash. R. E. Bolling, A. Cash.

The First National Bank
17 South St., Beltimore, Md.

Capital - \$1,000,000
Surplus and Net Profits - 490,000
Denosits - 6,500,600

Deposits

Especially well equipped to handle the business
of Southern Banks, Corporations, and Individuals and Manufacturers. We cordially invite correspondence and interviews.

## The National Exchange Bank

OF BALTIMORE, MD. Hopkins Place, German and Liberty Streets
Capital, \$1.000,000
July 15th, 1908, Surplus and Profits, \$671,631,60

OFFICERS

OFFICERS
WALDO NEWCOMER, President,
SUMMERFIELD BALDWIN, Vice-Pres.
R. VINTON LANSDALE, Cashier.
C. G. MORGAN, Asst. Cashier.
Accounts of Mercantile Firms, Corporations, Banks,
Bankers and Individuals Invited.

## Fldelity & Deposit Co. OF MARYLAND

Home Office, - - BALTIMORE, MD,

Total Assets Dec. 31, 1911, \$8,133,000.57

Pioneer Surety Co. of the South. Becomes Surety on bonds of every descrip-

AGENTS IN ALL PRINCIPAL CITIES Harry Nicodemus. Edwin Warfield, Sec'y and Treas. President

Southern Steam Railroad Securities DEALT IN

F. J. LISMAN & CO.

Specialists in Steam R. R. Securities Members New York Stock Exchang

NEW YORK 30 Broad Street 39 Pearl Street, Hartford Land Title & Trust Bldg., Philadelphia

## We Finance

Electric Light, Power and Street Railway Enterprises With Records of Established Earnings

## We Offer

Bankers and Investment Dealers Proven Public Utility Securities

# Electric Bond and Share Company (Paid-up Capital and Surplus, \$10,000,000)

71 Broadway

# **COTTON YARNS**

## Paulson, Linkroum & Co. COMMISSION MERCHANTS

NEW YORK

PHILADELPHIA

CHICAGO 206 S. Market Street

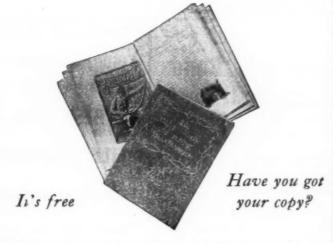


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treasurer; D. Stewart Ridgely, Charles Fisher, assistant treasure

Md., Libertytown.-The Citizens' Bank of Libertytown, capital \$10,000, is reported to have made application for a charter. Or-ganizers: James M. Sappington, Benjamin F. Hammaker, Maurice F. Starr and Milton Carter of Frederick county, and S. Raymond Sensency of Carroll county

Miss., Columbus. - Official: The Bank of Commerce, recently organized with a paid-up capital of \$75,000, will begin business about February 15; W. S. Lindawood, president; E. C. Chapman, cashier. Press reports say P. Phillips and W. N. Puckett will t

Mo., Kansas City.-The Securities Inve Mo., Kansis City.—The Securities Invest-ment Co. of Kansas City is reported char-tered under West Virginia laws; capital \$1,000,000, of which \$10,000 has been sub-scribed. Incorporators: Theoodre Gary, president of the Home Telephone Co.; H. L. Gary, Charles Bennett and W. H. Loomis, all of Kansas City.

N. C., Goldsboro,—The People's Bank of Goldsboro, capital \$150,000, has organized with the following directors: Robert C. Strong of Kinston, president; Geo. L. Edgerton of Goldsboro, vice-president, and James Kyle of Wilmington, cashier; D. R. Kornegay, John R. Crawford, A. M. Sprago, Lionel Weil, Thos. O'Berry, W. P. Rose, C. D. Taylor, James Allen, Geo. L. Edgerton, James R. Hatch, J. M. Edgerton and Sol Isaacs of Goldsboro, and H. C. McQueen and James Kyle of Wilmington.

Okla., Muskogee.—The Exchange National Bank is reported approved; capital \$100,000; M. G. Young, R. Harris, U. L. Jackson, G. S. Ramsey and C. H. Eherle. This succeeds the Muskogee County State Bank of Musko-

Pensacola. - Reported chartered : Okia. Pensacola.— Reported chartered: First State Bank, capital \$10,000. Incorporators: Emory Martin, Pensacola; C. D. Norton, Big Cabin; F. M. Adams, Vinita; W. T. Walling and James D. Wilson, Pensa-

Okla., Sasakwa.-The First National Bank is reported chartered; capital \$25,000. U. G. Forman is president and I. S. White cashier.

Okla., Wayne,—Official: No new bank has been organized. First State Bank was es-tablished some time ago. C. W. Hughes is

S. C., Charleston.—The Charleston Fidelity Corporation has elected T. T. Hyde, presi dent : Paul W. Sanders, first vice-president ; dent: Paul W. Sanders, first vice-president; W. S. Lanneau, second vice-president: Richard S. Whaley, solicitor; directors, A. R. Rugheimer, A. J. Buist, M.D., W. H. Walsh, Jos. A. Storfer, T. T. Hyde, W. J. Leonard, C. L. Legerton, H. E. Raines, W. S. Cook, O. G. B. Buell, M. H. Lazarus, J. S. Pinkussohn, J. Alwyn Ball, F. G. Ravenel, W. H. Misson, Leland Moore, W. A. Moore, W. L. Douglas, Wm. Schirmer, T. J. McCarty, P. W. Sanders, W. S. Allan, T. W. Passallaigue, J. H. Stuhr, W. S. Lanneau, J. V. Weston, R. S. Whaley, W. G. Welb, T. J. Hamlin, E. Mitchell Sea-W. G. Webb, T. J. Hamlin, E. Mitchell Sea brook. Temporary quarters will be in

S. C., Columbia.-The National State Bank of Columbia is reported organized; capital \$100,000; Wm. Barnwell, president, and J. T. Malton, cashier. This is a conversion of the State Bank of Columbia. S. C., Columbia.—The Carolina Bond &

S. C., Columbia.—The Carolina Bond & Mortgage Co., recently chartered, capital \$250,000, has the following officers: J. L. Mimnaugh, Columbia, president; H. A. Kahler, New York, vice-president; T. B. Stackhouse, vice-president: L. M. Hawkins, Columbia, secretary and treasurer; T. F. Sherwood, New York, assistant secretary and treasurer; Barron, Moore, Barron & McKay, Columbia, general counsel Columbia, general counsel

S. C., Fairfax.-Official: The Fairfax In surance Agency is reported chartered; capital \$2000; E. L. Young, president; J. F. Lightsey, vice-president; W. M. Lightsey,

Lightsey, vice-president; W. M. Lightsey, nanager and secretary and treasurer. Business is to begin at once.

8. C., Hemingway.—Official; The Hemingway Insurance and Real Estate Agency incorporated; capital \$1000; surplus \$800; Dr. H. L. Baker, president; F. C. Huggins, vice-president, and L. L. Ard, secretary and treasurer. Business has begun.

S. C., Laurens,-Reported chartered: The Laurens Building and Savings Association, capital \$10,000. Officers: C. D. Kennedy, president; M. J. Owings, vice-president, and C. H. Cooper, secretary and treasurer.

S. C., Rock Hill. — Reported chartered futual Investment Co.; capital \$1500 to capital \$1500 to \$50,000; C. L. Cobb, president; S. P. Spencer, secretary and treasurer.

Tenn., Chattanooga.-Official: The Real Junius D. Norton, treasurer, and Righter Cogswell, attorney; H. B. Sadd and Gordon Wood. Business is to begin at one

Memphis.-The Mississippi Valley Bank & Trust Co. is reported to have begu capital \$250,000; surplus \$50,000 inger, president; Leslie Stratton J. C. Ottinger, president; Leslie Stratton, vice-president; W. L. Huntly, Jr., assistant cashier. A cashier will be elected later. Directors: A. G. McLemore, J. R. Pepper, M. D. Thompson, F. M. Norfleet, D. E. Wagner, Lamar Heiskell, E. R. Gardner, E. P. Peacock, E. M. Purcell, W. R. Herstein, J. R. Hyde, Bolling Sibley, J. A. Ely, A. E. Kelley, L. M. Stratton, A. C. Roberts, A. W. Ketchum, N. H. Martin, S. R. Martin, C. P. Cooper, R. M. Bowen, E. W. Walthall, H. P. Jordan, J. R. Tague, Henry Hurst, T. W. Baker, J. C. Ottinger, Dr. A. R. Porter.

Tenn., Memphis.—The American Sick & Accident Co. will, it is reported, make application for a charter; capital \$10,000; incorporators, E. P. Nolen, J. M. Fleming, C. C. Howard, Henry Meyers and J. W. Koen.

Tenn., Mt. Pleasant .- The Guaranty State capital \$60,000, is reported incorpora J. B. Tennison, August Eickhoff and H. A. Wilson.

Tex., Addison.—The Addison State Bank is reported chartered; capital \$10,000. In-corporators: W. C. McKamy, D. B. Allen, J. C. Allen and others.

Tex., Galveston. - Reported chartered American Bank & Trust Co.; capital \$50,000. Incorporators: L. H. Collier, C. N. Markle. W. L. Moody W. Keenan and others. Jr., will be president, and the bank is to be located at 21st and Market Sts., in the American National Insurance Bidg.

Tex., Handley.—Official: The First State Bank has begun business. W. C. Forbess and others, incorporators. (See Manufacturers Record, January 16.1

Tex., Houston.—The Pan-American Trust Co. is organized with an authorized capital Co. is organized with an authorized capital of \$100,000, and among other things will develop lands. Directors: A. M. H. Stark, president, Orange, Tex.; S. N. Craig, vice-president, Texas City; Geo. W. Boynton, secretary, Houston; R. F. Butts, treasurer, Houston; L. R. Ramsay, E. A. Calvin, A. F. Fincher, all of Houston. Business is to begin at once.

Tex., Mt. Entrprise.-The Merchants and Planters' Bank is reported chartered; capi tal \$15,000; incorporators, W. T. Whiteman E. L. Ruork, Don Langston and others.

Tex., Newport.-Official: The First State Bank, capital \$10,000, is to begin business March 10. Directors: C. H. Boedeker, president; W. M. Bransford, vice-president; O. D. Wilkes, cashier; T. S. Walker and J. M.

Tex., Port Arthur.-The Home Trust Co. reported authorized to begin business: apital \$100,000; surplus \$50,000.

Tex., Poth.-Official: The First National Tex., Poth.—Official: The First National Bank of Poth chartered; capital \$25,000. Richard Voges, president; R. J. Weolert, cashler. Directors: J. H. Brown, J. V. Marr, Emet Witchet, A. Klaus and William Eckel. Business is to begin about January 25.

Tex., Personville. — The Guaranty State Bank of Personville is reported chartered;

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capital \$10,000. Incorporators: S. H. Marks, D. H. Marks and A. D. Crider.

Tex., Petty. - A State bank is reported being organized.

Tex., San Antonio.-Official: The Citizens Tex., San Antonio.—Official: The Citizens' Bank & Trust Co. Incorporated; capital \$100,-600 paid in; S. P. Skinner, president; Sidney Turner, active vice-president; Joseph Rosenfield, cashier; Wm. A. Wurzbash, John J. Ford, C. S. Greene, J. W. Neal, W. V. Dielmann and Chas. Livingston, directors. Business herean January 6. ess began January 6.

Tex., San Antonio.-The Citizens' Bank & Trust Co. is reported to have begun business the Gunter Hotel Bldg.; capital \$100,000. 8. P. Skinner is president.

8. P. Skinner is president.

Va., Lynchburg.—The United Loan & Trust
Co., which succeeds the American National
Bank, is reported chartered; authorized
capital \$1,000,000, with \$600,000 paid in.
President, James W. Gerow; vice-president,
Randolph Harrison; secretary, J. L. Nicholas. Directors: Randolph Harrison, W. W.
Lynn, James M. Gerow, G. E. Vaughan, R.
F. Bopes, R. G. Robertson, C. S. Adams,
Leon Goodman, A. H. Burroughse of New
York city, Carter Glass, Dr. John W. Dillard, J. L. Richardson, R. Stockton Terry,
F. M. Dunnington, C. M. Guggenhelmer, P. lard, J. L. Richardson, R. Stockton Terry F. M. Dunnington, C. M. Guggenhelmer, P. A. Krise, Benjamin N. Duke, New York city Charles E. Heald, Stephen P. Halsey, T. M. Terry, J. T. Noell, Jr., N. D. Eller, J. C. Moss, B. P. Thornhill, R. J. Hancock and John G. Haythe of Lynchburg, and W. Kinckle Allen of Amherst Courthouse. Business is to begin February 17 with offices in the Krise Bidg., corner 9th and Main Sts. Books of subscription will be opened Febru-ary 1 and close February 4.

Va., Norfolk .- J. W. Williamson and J. B. Baker of Guion are reported interested in the organization of a new bank to be capitalized at \$10,000.

Va., Richmond.—The Securities and Invest-ment Corporation, capital \$50,000 to \$500,000, is reported chartered; James Mullen, president; R. W. Stump, vice-president; A. L. Hawse, secretary and treasurer.

Va., Roanoke.—The North Carolina Invest-ment Corporation is reported incorporated; capital \$2000 to \$25,000. O. B. Watson, presi-dent; F. W. Leftwich, vice-president; E. A. Cannon, secretary and treasurer.

W. Va., Martinsburg .- A new building and oan association is reported being organized, capital to be \$100,000 or \$150,000. D. M. Kilmer, N. Queen St., may be able to give ination.

W. Va., Moundsville.—A new bank is re-orted being organized by J. W. Garvin, J. Myers, Evan G. Roberts, F. W. Eller and The new concern will pro-J. A. Streibich. ably be named the City and County Bank of ndsville

## NEW SECURITIES.

Ala., Alabama City.—Official: \$26,500 of water-works, \$18,500 of sewer and \$5000 of city hall 5 per cent. 30-year bonds are being offered for sale; denominations \$500 and \$1000; dated September 1, 1912. R. A. Burns is Mayor and Charles West city clerk.

Fin., Brooksville.—Official: February 15 an election is to be held in Hernando county to vote on \$100,000 of 4½ per cent. 20-30-year road bonds. M. H. Snow is clerk Board of County Commissioners, and H. D. Evans,

Fla., Jacksonville.-Blodget & Co., Nev York, are reported to have been awarded at \$282.50 premium \$100,000 of street-improvenent, \$100,000 of water and light and \$50,000 of park 41/2 per cent. 24-year bonds.

Fla., Jacksonville.—At a special election January 21 the voters of Jacksonville au-thorized the issue of \$1.500,000 of bonds to establish municipal dock on St. Johns River at Jacksonville.

Fla., Largo. - J. S. Barcus, representing John Nuveen & Co. of Chicago, is reported to have been awarded \$10,000 of 6 per cent. 30-year water and light bonds. J. C. Burns is Mayor.

Fla., Madison. — Official: Bids will be opened on February 4 for \$5000 of 6 per cent. We year water mains extension bonds; denominations \$500 and \$100. Bonds were voted July 6, 1909. R. H. Rowe is Mayor.

Fla., Miaml.—Official: Bids will be received until noon February 8 for \$175.000 of 5 per cent. 10-20-year Dade county funding and highway bonds. F. A. Bryan is chairman Board of County Commissioners. Z. T. Merritt is clerk and F. J. Magill deputy clerk.

Tallahassee.-An election is to be held in April, it is reported, to vote on \$10,000 of street and water bonds.

held March 12, it is reported, to decide the nestion of issuing \$50,000 of school bonds

La., Homer.-Official: School bonds are to be issued and sold. Address J. H. Davids superintendent, Claiborne Parish Sch

Ky., Hopkinsville.—The Planters' Bank & Trust Co. is reported to have purchased at par \$900 of 6 per cent. one-year street im-provement bonds; dated November 1, 1912.

Ky., Lexington.-Official: Bids will be re ceived until noon January 27 for \$200,000 of sewer and \$25,000 of park 4 per cent. 40-year bonds; denomination \$1000; dated January 1, 1913. J. E. Cassidy is Mayor, and Waller B. Hunt, commissioner of finance

Ky., Murray.-John Nuveen & Co., Chicago are reported to have been awarded, at \$455 premium, \$40,000 of 5 per cent. 15-year Calloway county courthouse bonds. R. H. Falwell is Clerk County Court.

La., Lake Charles .- March 11, it is re ported, an election is to be held to vote on \$130,000 of courthouse and jail bonds. \$130,000 of courthou

La., Mandeville.-Official: Voted October 22, 1912: \$20,000 of 5 per cent. bonds for building seawall or breakwater; denomina-tion \$500; date for opening bids not yet de-cided. Address W. G. Davis.

La., Monroe.-Ouachita county prop is stated, to issue \$200,000 of road district bonds. W. E. Atkinson is State Highway Engineer

La., Lake Charles.—March 11, it is reported, an election is to be held to vote on \$130,000 of courthouse and jail bonds.

Miss., Bay St. Louis.—Official: Bids will be received until noon February 3 for \$50,000 per cent. 20-year Hancock county bridge bonds; denomination \$500; of 6 per cent. 20-year Hancock county road and bridge bonds; denomination \$500; dated January 1, 1913; maturity January 1, 1833. Address Wiley Smith, president Board of Supervisors. A. A. Kergosien is clerk Board

Miss., Bay St. Louis.—On February 3, it is reported, Hancock county will sell \$52,000 of road and bridge bonds.

Miss., Collins.-Reported that \$25,000 of 6 per cent. 10-year school bonds were purchased by the Bank of Collins.

Miss., Ellisville.-The Bank of Ellisville eported to have purchased Jones county

Miss., Hazlehurst.—February 1, it is re-orted, an election is to be held in Copiah ounty to vote on \$75,000 of good-roads bonds.

Miss., Indianola.—Sunflower county proposes, it is stated, to issue \$55,000 of road bonds of districts Nos. 2 and 5.

Miss., Liberty.—Official: Defeated: \$80,000 of road bonds of Third Supervisors' District, Amite county. George M. Causey is Clerk Chancery Court.

Miss., Macon.—Spitzer, Rorick & Co., To-ledo, are reported to have purchased the \$75,000 of 5½ per cent. road bonds of Super-visors' district No. 5, Noxubee county, offered December 3.

Miss., Meadville.—Official: March 17 an election is to be held in Franklin county to yote on \$40,000 of courthouse bonds. A. R. Moore is chancery clerk.

Miss., New Albany. — The Bank of New Albany and the Merchants & Farmers' Bank of New Alban; are reported to have pur chased bonds of Okonitic, Hatchis and Lap patubba drainage districts, Union county.

Miss., Philadelphia.-The \$100,000 of Neoshoba county road bond issue recently voted will probably be increased to \$150,000, it is reported.

Miss., Poplarville .- H. R. Rouse, clerk writes that election has not yet been called to vote on bonds of Beat 1, Pearl River county. (See Manufacturers Record January 16.)

Miss., Port Gibson.—Reported that \$59,000 of 5 per cent. 20-year Chalborne county court-house refunding bonds have been purchased by J. R. Sutherlin & Co. of Kansas City.

Purvis.-Reported defeated: of district 5, Lamar county, road bonds.

Miss., Slate Spring.-D. P. Hodges, clerk Commisioners, will receive bids, it is reported, until noon February 4 for \$42,500 of 6 per cent. 30-year bonds of Topashaw Swamp Land district; denomination \$500 and \$1000; dated January 8, 1913.

Miss., Winona.—Montgomery county will offer on February 3, it is reported, \$40,000 of road bonds.

Mo., Excelsior Springs. - Reported that Mo., Excelsior Springs.—Reported that \$65,000 of district road bonds were voted for building road in Clay county between Kansas City and Excelsior Springs. Address County Commissioners, Liberty, Mo.

50,000 of street and water bonds.

Mo., Independence.—February 4, it is reGa., Thomasville.—An election is to be ported, an election is to be held to vote on

\$40,000 of 5 per cent, bonds to cover out-

Mo., Jefferson City.—Plans are reported being made to sell \$3,215,000 of 3½ per cent. Capitol building bonds.

Mo., Joplin.—Official: Voted January 14: \$50,000 of 5 per cent, 5-20-year viaduct bonds \$50,000 of 5 per cent. 5-20-year viaduct bonds; denomination \$500.

Joplin. -Reported voted: \$50,000 of viaduct bonds.

Mo., Liberty.-Reported voted: \$65,000 of Clay county highway improvement bonds in Sugar Tree Grove road district.

Mo., Plattsburg. — January 20, it is re-ported, an election was held to vote on \$23,000 of water-works bonds.

Mo., Rich Hill.—J. R. Sutherlin & Co. of Kansas City is reported to have purchased at 101 and interest \$15,000 of 5 per cent. 15-year electric-light extension bonds.

N. C., Carthage.—F. M. Stafford & Co., Inttanoga, are reported to have been warded \$30,000 of 5½ per cent. 30-year water Chattanoga, are

N. C., Oxford.—Reported that it is pro-losed to issue \$10,000 of street-improvement bonds.

Gastonia.-Official: Bids will be received by the Board of County Commis-sloners of Gaston County, John F. Leeper-chairman, Belmont, N. C., until 1 P. M. February 10 for \$30,000 of 5 per cent. courtnouse and jail debt bonds; dated February , 1913; denomination \$1000. Further particu-ars will be found in the advertising col-. 1913 : der

N. C., Gastonia.—Official: City is offering for sale \$70,000 of 5 per cent. municipal bonds; denomination \$1000; dated March 1, 1913; maturity March 1, 1943. Address Ar-thur C. Jones, Town Attorney. Further par-ticulars will be found in the advertising col-

N. C., Scotland Neck .- A bill is to be introduced in the General Assembly authorising an issue of school bonds, amount not to exceed \$16,000. Address Board Graded School Trustees, Stuart Smith, attorney.

Okla., Clinton.-Reported voted: \$25,000 of ospital bonds.

Okla., Collinsville.-The election to vote on \$11,500 of city hall, jall and equipment; \$3500 of fire department equipment, \$5000 of sewerage purification and disposal, and \$30,-000 of water-works and lighting system per cent. 25-year bonds will, it is stated, i per cent. 20-year bonds will, it is stated, be held January 23. It is further stated that Sutherlin & Co., Kansas City, have pur-chased at 101.50 and interest the above bonds, subject to approval of voters. Wil-liam Gresham is City Clerk.

Okla., Cushing.—City Council is reported to have voted \$30,000 of school bonds. It is also stated that city proposes to issue bonds for extension of water-works system.

Okla., Oklahoma City.-Bonds of drainage district No. 6, Oklahoma county, are re-ported being offered for sale. Address ounty Commissioners

Okla., Stonewall.—Reported voted: Bonds for water and light purposes.

S. C., Greer.—An election is to be held February 4, it is reported, to vote on \$67,000 of bonds as follows: Electric-light plant, \$15,000; water-works, \$35,000; sewerage \$17,000; interest not to exceed 7 per cent. and loans to run not longer than 40 years. John D. Wood is Mayor. ns to run not lo Wood is Mayor.

S. C., Mullins.—An election is to be held, its reported, to vote on \$60,000 of 5 per cent. 20-40-year water and sewerage bonds

Tenn., Dickson.—Official: Voted Pecember 31: \$10,000 of 5 per cent. 30-year schoolbuilding bonds; denomination \$100; date for opening bids not yet decided. Pitt Hensler opening l is Mayor.

Tenn., Dresden.-Bills are to be introdu in the Legislature, it is reported, providing for the issuing of bonds for water-works and electric lights

Tenn., Lonsdale, P. O. Knoxville, - The City Council is reported to have approved the ordinance providing for an additional issue of \$20,000 of bonds to improve streets and pay off floating indebtedness.

Tenn.. Memphis.-A bill is to be introduced in the Legislature, it is reported, authoriz-ing Shelby county to issue \$500,000 of jail bonds. It is also stated that authority will be asked to issue from \$250,000 to \$350,000 of school bonds.

Tenn., Milan.-A bill is to be introduced in the Legislature, it is reported, authorizing the issuing of street bonds.

Tenn., Morristown.—Hamblen county proposes, it is stated, to issue \$15,000 of 5 per cent. 20-year bonds to pay off floating in-

Tenn., Paris .- A bill is to be introduced in Legislature, it is reported, providing for Issuing of sewerage, light and school

Spencer .- B. Williams of McMinn ville is reported to have purchased \$50,000 of 5 per cent. Van Buren county pike bonds.

Tex., Austin.-The Attorney-General has approved the following securities: \$6000 of 5 per cent. 20-40-year bonds of Taylor county common school district No. 9; \$600 of 5 per cent. 10-20-year bonds of Taylor county common school district No. 36; \$1500 of 5 per cent. 10-20-year bonds of Matagorda common school district No. 13; \$1500 of 5 per cent. 20-year bonds of Potosi independent school district; \$25,000 of 5 per cent. 20-40-year water-works bonds of Longview.

Tex., Bryan.-Reported voted: Street paywater-works extension

Tex., Cleburne.—Reported that it is proposed to issue \$350,000 of bonds for sewer, street, school and other improvements.

Tex., Corpus Christi.—Farson, Son & Co., Chicago, are reported to have been awarded \$14,000 of 5 per cent. sewer bonds.

Tex., Dallas.-The \$100,000 of water improvement bonds purchased by J. B. Old-ham and \$40,000 of public school improvement bonds purchased by the Dallas Trust and Savings Bank are reported to have been delivered by the city.

Tex., El Dorado.-Regarding report that Schleicher county proposes issuing court-house bonds. W. C. Benton, county clerk, writes: "Nothing doing." Press reports say the bonds were defeated.

Tex., Granger.—Official: Reported voted: \$10,000 of school-building bonds.

Tex., Groveton.—Reported voted: \$60,000 of bonds of road district No. 1, Trinity

of bonds of the county.

Tex., Hearne.—Official: January 21 an election was held in Robertson county to vote on \$150,000 of 5 per cent. 40-year road bonds. Address J. T. Goodman, judge.

Tex., Houston.-February 20, it is reported, an election is to be held in Harris county to rote on \$1,000,000 of road bonds.

Tex., Port Lavaca.—Official: Voted: \$135.000 of 5 per cent. Calhoun county road improvement bonds; denomination \$1000: date for opening bids not yet decided; E. F. unty Clerk

Tex., Rockdale.-February 25, it is report ed, an election is to be held to vote \$30,000 of water-works bonds.

Tex., Smiley.—Official: Voted December 21: \$10,000 of 5 per cent. 40-year independent school district building bonds; denomination \$1000 : dated February 1, 1913. Date for open ing bids not yet decided.

Tex.. Temple.—Reported that an election is to be ordered to vote on \$75,000 of sewer and \$75,000 of street-paving bonds.

Va., Accomac.—Official: The \$20,000 of 5 per cent. 5-30-year Accomac county road bonds have been sold as follows: Bank of Chincoteague, \$15,000 at \$20 premium, and D. .J Whealton of Chincoteague, \$5000 at \$25

Va., Blacksburg.-Reported voted: \$3000 of npletion and \$3000 of n sewerage compl building bonds.

Va., Manassas. — Official: Defeated by seven votes: \$48,000 of Gainesville district, Prince William county, road bonds. J. E. Herrill is Clerk.

Va., Wise.—Bids will be opened February 1, it is reported, for \$260,000 of bonds of Hadeville and Richmond magisterial disille and Richmond magisterial dis-Wise county, 5 per cent. 20-30-year road bonds.

Va., Wise.-Lipps district, Wise county, is reported preparing to vote on \$100,000 or more of road bonds.

W. Va., Parsons,-Official: Bids will be re-W. Va., Parsons.—Official: Blds will be re-ceived until 1 P. M. February 13 by H. A. Ridgway, secretary Board of Education, Black Fork District, Tucker county, for \$35,-000 of 5 per cent. high-school bonds; dated November 1, 1912. Further particulars will be found in the advertising columns.

## FINANCIAL NOTES.

The Calvert Bank, Baltimore, Md., has ablished a branch at Gay and Monument Sts.

The State Trust Co. of Wilmington, N. is reported to have established a branch at Claremont, N. C.

The Richmond Bank & Trust Co. of Rich mond, Va., proposes to increase its capital from \$300,000 to \$500,000,

The Bank of Charleston, at Charleston, 8. C., is reported to have increased its capital from \$300,000 to \$500,000.

The conversion of the Bank of Adrian, Mo., into the First National Bank has been approved; capital \$25,000.

The Bank of Villa Rica, Ga., is reported to bave amended its charter, increasing its capital from \$30,000 to \$50,000

The First Guaranty State Bank of Quanah, Tex., proposes, it is stated, to increase its capital from \$25,000 to \$50,000.

The People's Bank of Fort Smith, Ark., has, it is reported, decided to increase its capital from \$25,000 to \$50,000.

The Fidelity & Deposit Co. of Baltimore, Md., has amended its by-laws, increasing its capital from \$2,000,000 to \$3,000,000.

The Interstate Casualty Co, of Birmingham, Ala., according to press dispatches, has increased its capital to \$300,000.

The New Hibernia National Bank of New Orleans, La., has, it is reported, changed its name to the Hibernia National Bank.

The Bank of Camilla, at Camilla, Ga., is reported to have amended its charter, increasing its capital from \$25,000 to \$50,000. The Farmers' National Bank of Opelika.

Ala., according to press dispatches, has increased its capital from \$50,000 to \$100,000.

The National Bank of West Virginia at

The National Bank of West Virginia, at Wheeling, is authorized, it is reported, to increase its capital from \$400,000 to \$500,000.
The Hibernia Bank & Trust Co. of New Orleans, La., has, it is reported, voted to in-

crease its capital from \$1,000,000 o \$1,500,000.

The Farmers and Merchants' Bank of Ehrhardt, S. C., has been authorized, it is stated, to increase its capital from \$15,000 to

The Union Bank of Knoxville, Tenn., will, it is reported, apply for a national charter and increase its capital from \$100,000 to \$200,000.

The Exchange National Bank of Dallas, Tex., is reported to have voted to increase its capital to \$1.500,000. Royal A. Ferris is president.

The Chesapeake Bank, Walbrook, Baltimore, Md., has Increased its capital from \$25,000 to \$50,000. J. Monroe Holland is president.

The American Bank & Trust Co. of Knoxville, Tenn., is to be converted into the American National Bank of Knoxville; capital \$100,000.

The Farmers and Merchants State Bank of Riesel, Tex., is reported to have filed an amendment to its charter, increasing its capital from \$10,000 to \$20,000.

The Sykesville National Bank of Sykesville, Md., has absorbed the First National Bank of Sykesville, and will increase its capital from \$50,000 to \$75,000.

Plans for the merging of the Richland Savings Bank and Trust Co. and the Guaranty Trust Co., both of Columbia, S. C., under the name of the latter institution are reported completed. The capital will be \$100,000.

The merging of the Kentucky Livestock Insurance Co. and the Tennessee Indemnity Co. of Knoxville, according to reports from Louisville, Ky., under the name of the former institution has been consummated; capital \$200,000. (See Manufacturers Record, January 9.)

The First National Bank of Birmingham, Ala., has issued an attractive pamphlet giving a brief history of the institution from the time it was chartered, in April, 1884 (succeeding the National Bank of Birmingham), until October 1, 1912. It also contains a description of the company's building and equipment, together with excellent illustra-

tions of the exterior and interior and the safe-deposit vault, besides pictures of the principal officers. The capital is \$1,500,000 and surplus \$1,500,000. W. P. G. Harding is president, J. H. Woodward and J. H. Barr vice-presidents, Thomas Hopkins cashier; Thomas Bowron, F. S. Foster and J. K. Fleming, assistant cashiers; J. E. Ozburn secretary savings department, and J. H. Wetmore auditor.

### PORTLAND CEMENT IN 1912.

Estimated Increase of Three and One-Half Million Barrels.

According to returns received by the United States Geological Survey up to January 15, 1913, it is estimated by Ernest F. Burchard of the Survey that the total quantity of Portland cement manufactured in the United States in 1912 was approximately 81,941,998 barrels. It is believed that this estimate is within 1.5 per cent. of the exact figure. This quantity represents an increase of 3,413,361 barrels over the 78,528,637 barrels manufactured in 1911, or 4.3 per cent. The shipments of Portland cem ent during 1912 are estimated at 84,750,291 barrels, compared with 75,547,829 barrels in 1911, an increase of 9,202,462 barrels, or 12.2 per cent. The production in 1912 was thus held in check sufficiently to permit a material reduction in the stocks of cement at the mills at the close of 1911, which amounted to nearly 12,000,000 barrels.

The continued increase in the production of Portland cement is significant in view of the fluctuations in the output of other leading mineral products, such as coal, iron and copper. The curve of production of Portland cement, although not now rising at so rapid a rate as during 1909 and 1910, is still pointing upward, and has yet to take its first downward drop.

Practically all mills report having to contend with adverse business conditions during the first six months of the year. Prices were lower than the average for 1911 during this period, and some plants reported the lowest prices for which they had ever sold cement. After the middle of the year conditions improved materially, and generally during the last four months of 1912 the demand for Portland cement was sufficient to keep most mills running at full capacity. In the Lehigh district production was curtailed slightly in order to diminish accumulated stocks. Production and shipments in New York show the greatest proportionate increase of all districts. In the Southeastern States the increase in production and shipments was gratifyingly large, as it was also in the vicinity of Chicago, Ill., and in Iowa and Missouri. plants in Kansas were much hampered by the failure of the supply of natural gas, and were obliged to shut down temporarily while installing coal-burning de-This feature contributed to the

# The Home Insurance Company

No. 56 Cedar St., NEW YORK

One Hundred-and-Nineteenth Semi-Annual Statement
JANUARY, 1913

## SUMMARY OF ASSETS.

Par value.	Market value,
Cash in Banks and Trust Companies	\$1,759,494 71
United States Bonds \$150,000 00	164,000 00
State and City Bonds 6,299,333 33	6,270,24 00
Railroad Bonds 9,005,000 00	8,388,700 00
Miscellaneous Bonds	1,522,400 00
Railroad Stocks 9,033,000 00	10,702,230 00
Miscellanous Stocks	1,558,000 00
Bank and Trust Co. Stocks 159,300 00	465,750 00
Bonds and Mortgages, being first lien on Real Estate	21,300 00
Premiums uncollected, in course of transmission and in	
hands of Agents	2,327,747 89
Accrued interest	226,566 00

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## LIABILITIES.

Cash Capital	\$3,000,000	001
Reserve for Premium Fund	12,341,420	00
Reserve for Losses	1,263,997	33
Reserve for Reinsurance and other claims	349,261	99
Reserve for Taxes	200,000	00
Reserve for Miscellaneous Accounts due and unpaid	100,000	00
Reserve as a Conflagration Surplus	1,800,000	001
Surplus over contingencies and all liabilities, including		
capital	14,351,755	28†

\$33,406,434 60

Surplus as regards policy-holders.....\$19,151,755 28†

## DIRECTORS:

Levi P. Morton, Elbridge G. Snow, George H. Hartford, Henry F. Noyes, Lucien C. Warner, John Claffin, John H. Flagler, William D. Baldwin, Lewis L. Clarke, Clarence H. Kelsey, William Ives Washburn, Elbert H. Gary, Thomas B. Kent, Cornelius N. Bliss, Jr.

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New York, January 14th, 1913.

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1 90 ton Vulcan Shovel

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2 Model 20 Marion Shovels

6 12 to 18 ton Dinkies

Three Traction Engines

Second-Hand Dump Cars Second-Hand Dump Wagons

Prices, terms and description on application. All equipment

subject to rigid inspection.

THE WM. J. OLIVER MANUFACTURING CO.

Knoxville, Tenn.

decrease in production in the Great Plains States. In the Pacific Coast States and in certain of the Rocky Mountain States production did not keep pace with that of 1911, owing to the lack of demand for cement for large public works.

The average price for the whole country of Portland cement per barrel in bulk at the mills will probably show a slight decrease when complete returns are received, although at the close of the year prices were much better than they had been during the last two years.

In addition to estimating the total production and shipments of Portland cement during 1912, it is possible to present fairly complete statistics of production and shipments by districts.

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Lehigh District.—Eastern Pennsylvania and New Jersey, which together form the leading Portland cement manufacturing district of the United States, produced approximately 24,449,523 barrels of Portland cement in 1912, compared with 25,-972,108 barrels in 1911. This represents a decrease of 1,522,585 barrels, or 5.9 per cent. The shipments of Portland cement in 1912 approximated 25,905,257 barrels, compared with 25,192,464 barrels shipped in 1911, an increase of 712,793 barrels, or 2.8 per cent. There were 20 mills reported as active in 1912, against 24 in 1911.

New York .- Mills in the State of New York produced approximately 4,490,180 barrels of Portland cement in 1912, compared with 3,314,217 barrels in 1911. This represents an increase of 1,175,963 barrels, or 35.5 per cent. The shipments of Portland cement in 1912 approximated 4.547.195 barrels, compared with 3.058.463 barrels shipped in 1911, an increase of 1.488,732 barrels, or 48.7 per cent. There vere seven mills reported as active in 1912, the same number as in 1911.

Ohio and Western Pennsylvania.-In Ohio and Western Pennsylvania there were produced approximately 7,239,775 barrels of Portland cement in 1912, compared with 6,756,313 barrels in 1911. This represents an increase of 483,462 barrels, or 7.2 per cent. The shipments of Portland cement in 1912 approximated 7.400,885 barrels, compared with 6,654,269 barrels shipped in 1911, an increase of 746,616 barrels, or 11.2 per cent. There were nine mills reported as active in 1912, the same number as in 1911.

Michigan and Northeastern Indiana .-This district produced approximately 4,449,274 barrels of Portland cement in 1912, compared with 4,519,726 barrels in 1911. This represents a decrease of 70,452 barrels, or 1.6 per cent. The shipments of Portland cement in 1912 approximated 4,451,838 barrels, compared with 4,550,896 barrels shipped in 1911, a decrease of 99,058 barrels, or 2.2 per cent. There were 12 mills reported as active in 1912, the same number as in 1911.

Kentucky and Southeastern Indiana .-Mills near Ohio River in Kentucky and Indiana produced approximately 3,071,-467 barrels of Portland cement in 1912, compared with 2,818,820 barrels in 1911. This represents an increase of 252,647 barrels, or 9 per cent. The shipments of Portland cement in 1912 approximated 3,134,874 barrels, compared with 2,800,526 barrels shipped in 1911, an increase of 334,348 barrels, or 11.9 per cent. Three mills were reported as active in 1912, the same number as in 1911.

Southeastern States. - Mills in the States of Maryland, Virginia, West Virginia, Tennessee, Georgia and Alabama produced approximately 4,664,454 barrels of Portland cement in 1912, compared with 4,049,063 barrels in 1911. This represents an increase of 615,391 barrels, or 15.2 per cent. The shipments of Portland cement in 1912 approximated 4,961,662

barrels, compared with 3,723,183 barrels shipped in 1911, an increase of 1,238,479 barrels, or 33.3 per cent. There were 9 mills reported as active in 1912, against 11 in 1911.

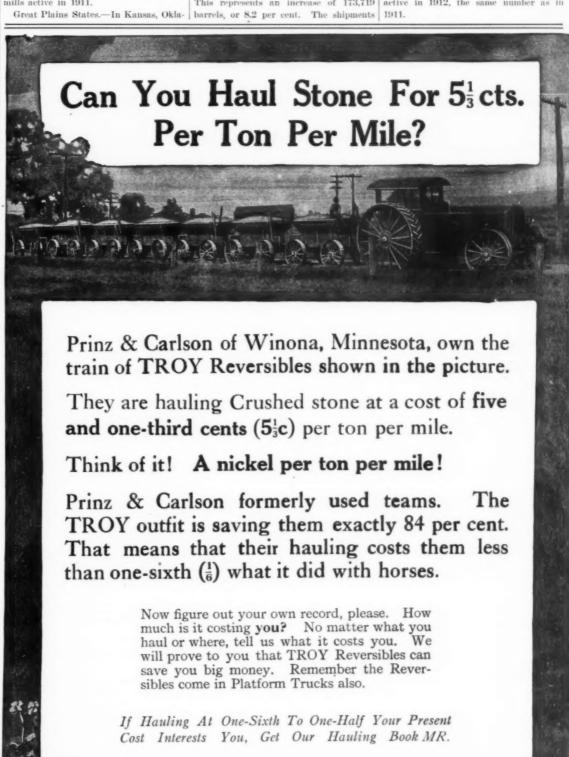
Iowa and Missouri. - The output of Portland cement in Iowa and Missouri amounted to approximately 7,557,090 barrels in 1912, compared with 6,067,449 barrels in 1911. This represents an increase of 1,489,641 barrels, or 24.6 per cent. The shipments of Portland cement in 1912 approximated 7,792,163 barrels, compared with 5,932,856 barrels shipped in 1911, an increase of 1,859,307 barrels, or 31.3 per cent. There were eight mills reported as active in 1912, against seven mills active in 1911.

homa and Central Texas approximately 5,760,938 barrels of Portland cement were produced in 1912, compared with 7,010,-396 barrels in 1911. This represents a decrease of 1,249,458 barrels, or 17.8 per cent. The shipments of Portland cement in 1912 approximated 6,152,378 barrels, compared with 6,332,698 barrels shipped in 1911, a decrease of 180,320 barrels, or 2.8 per cent. There were 15 mills remills active in 1911.

Rocky Mountain States. - Colorado, Utah, Montana and Western Texas together produced approximately 2,298,649 barrels of Portland cement in 1912, compared with 2,124,930 barrels in 1911. This represents an increase of 173,719

of Portland cement in 1912 approximated 2,234,766 barrels, compared with 1,994,790barrels shipped in 1911, an increase of 239,976 barrels, or 12 per cent. Seven mills were reported as active in 1912, and the same number in 1911.

Pacific Coast .- The States of California and Washington produced approximately 7,258,542 barrels of Portland cement in 1912, compared with 7,278,274 ported as active in 1912, as against 17 barrels in 1911. This represents a decrease of 19,732 barrels, or 0.3 per cent. The shipments of Portland cement in 1912 approximated 7,483,852 barrels, compared with 6,770,242 barrels shipped in 1911, an increase of 713,610 barrels, or 10.5 per cent. There were 11 mills reported as active in 1912, the same number as in



THE TROY WAGON WORKS CO.

106 E. Race St.

Troy, Ohio.

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WANTED—A capable representative on commission in Nashville, Tenn.; Memphis, Tenn.; Louisville, Ky.; Cleveland, Ohio, and Jacksouville, Fla., to obtain recognition and chance to bid on local work for a patented concrete construction; acquaintance with architects desired. Address, stating qualifacation and experience, No. 1176, care Manufacturers Record.

MANAGER WANTED.—We desire to engage the services of a practical wagon manufacturer to take charge of and manage our plant. We have a capital of \$150,000, with practically no liabilities. We have been in successful operation for more than one year. In communicating with us give references. Address all communications to M. Sansom, President Fort Worth Wagon Factory, Fort Worth, Texas.

INVENTORS WANTED TO WORK ON SALARY. National Invention Corporation, 306 Hill Bldg., Nashville, Tenn.

WE DESIRE the services of a high-class man familiar with every detail of pipe, fittings and mill supplies, in the position of assistant to manager and to devote a part of his time to traveling. Location, large Southern city. This is an opportunity for an exceptionally capable man, as no other will be considered. Address, with full information as to salary, experience and references, No. 1192, care Manufacturers Record.

WANTED-A commercial secretary. Mail references, etc., to Chamber of Commerce, Union, S. C.

WANTED — Thotoughly experienced and practical steam-trap salesman; one who can estimate and plan for installing return and non-return traps, vacuum and condenser traps; none other need reply. Manufacturers Supply Co., 703-5 Realty Bldg., Charlotte, N. C.

WANTED—A man to manage a foundry; one who would be willing to invest \$10,000 as a working interest; first-class location in Illinois. Write for particulars and address No. 1191, care Manufacturers Record.

#### AGENCIES WANTED

WANTED.—Sales agency for all lines per-taining to builders' specialties; East Ten-nessee as territory; can furnish satisfactory references to interested concern; modern warehouse facilities. Address Daniel Bris-coe, Jr., 325-327 State St., Knoxville, Tenn.

WANTED.—An old-established firm, whose business permits of taking on side lines, de-sires to represent manufacturers in Balti-more and vicinity; first-class references. Ad-dress No. 1194, care Manufacturers Record.

WANTED—By man of fifty, resident of Baltimore, with twenty-five years experience as builder and superintendent, to represent some branch of the building trade in Wash-ington and Baltimore. Address No. 1193, care Manufacturers Record.

WANTED—Sales agency by trained salesman and practical mechanic. Experienced in steam, air and internal combustion engines and mill supplies. C. Alexins, 226 S. White St., New Orleans, La.

WANTED—Exclusive State representation of reliable manufacturers; staple line pre-ferred; high-class service guaranteed and references furnished. Standard Supply Co., 709 Gibbs Bidg., San Antonio, Tex.

## SITUATIONS WANTED

MANUFACTURERS.—Let us furnish you he man you need in your experimental deartment, or let us furnish ideas. We origitate, to your order, new devices or improve id ones. Ask us about our free service, he National Invention Corporation, 396 Hill idg., Nashville, Tenn.

WANTED—Position as traveling salesman for some concern manufacturing a high grade building specialty; acquainted with practically every architect and engineer of note in the Southeast, as well as purchasing departments of railroads; highest references. Address No. 1190, care Manufacturers Record.

AM OPEN FOR POSITION after ten years' association with selling branch of large corporation manufacturing air compressors, rock drills and kindred machinery. What have you to offer. Address No. 1195, care Manufacturers Record.

Manufacturers Record.

A COMMERCIAL SECRETARY with five years' experience in retail merchants' association and commercial club work desires to make a change January 1. Have had three years of success at present location in city of 10,000, and can stay here as long as I want to. Best of references and record. Address No. 1175, care Manufacturers Record.

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EXECUTIVE AMERICAN, knowing French,

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Rate 20 cents per line per insertion. Minimum space accepted, four lines. Maximum Rate 20 cents per line per insertion. Minimum space accepted, four lines. Maximum space accepted, 24 lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps a copted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, whiskey or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 18c. per line; 300 lines 16c. per line; 500 lines or more, 15c. per line.

THE PALMETTO NATIONAL BANK, Coumbia, S. C., capital \$250,000, solicits ac umbia, S. C., capital \$250,000, solicits acounts of banks, firms, corporations and individuals, either commercial or savings accounts

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RENSSELAER POLYTECHNIC INSTI-TUTE, TROY, N. Y.—Courses in Civil, Me-chanical and Electrical Engineering, and General Science, leading to the degrees of Civil Engineer (C.E.), Mechanical Engineer (M.E.), Electrical Engineer (E.E.), and Bachelor of Science (B.S.). Special courses in engineering and science. Splendidly equipped new engineering laboratories. Send for catalogues to Registrar.

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COMMERCIAL CORRESPONDENCE in Spanish, French, German and Italian promptly and accurately translated by Har-vard specialist in the modern languages; rate, 30 cents per 100 words. Address R. F. Gable, A.B., A.M., York, Pa.

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LET US SHOW YOU the advantages of a high-grade incorporated collection service, with representatives in every city in America, backed by system and capital. Our specialty is quick action on good accounts by courteous methods, but we collect anything anywhere, and will handle all your claims and guarantee satisfaction. Credit Adjustment Corporation, High Point, N. C.

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WE DESIRE to finance, manufacture and sell any first-class machines made of iron steel, brass or wood; have fine shop and sell-ing facilities. P. O. Box 828, Charlotte, N. C.

MANUFACTURERS — INVESTORS, — No quicker way to fortune than to market a good invertion. We have them for sale, Write Adam Fisher Mfg. Co., 88-16, St. Louis, Mo.

WANTED—To get in communication with reliable brokerage firm that can sell \$300,000 stock in a manufacturing concern with \$750,000 capital; \$450,000 paid in. Located in South. Will stand closest investigation; 18% to 56% on investment of \$750,000 capital. Address No. 1189, care Manufacturers Record

FOR SALE—One-half interest in a Mer-cantile Company at San Benito, Texas, Positively the best business stand in the Lower Rio Grande Valley. Party must be capable of managing the business. Custom-ers principally farmers. Address Alba Hey-wood, San Benito, Texas.

WANTED—Malleable from or steel manufacturers of a small device weighing 1 lb. to 5 lbs. You can have pattern on application. Address James E. B., S. S. S., Henderson, N.C.

FIRST-CLASS LUMBERMAN WITH CAP-ITAL WANTED.—Ground-floor proposition, Must have good credentials and understand all details from the stump up to superintend a large plant to be started in Virginia. Ad-dress R. G. Leftwich, Lynchburg, Va.

GROW WITH CANADA.—We have two story cement building, 60x150, located on twe ines of railroad. Will sell or take sto-n any first-class manufacturing concern Planty of capital to be had for an A 1 propo-sition. Box 151, Grimsby, Ont.

WANTED-A broker to handle high-class proposition; references required. F. V. Scott & Co., Elizabeth City, N. C.

MAN WITH WIDE BUSINESS experience, ability, acquaintanceship in Texas, and some money, open to engagements. Address Box 1133, San Antonio, Texas.

WANTED-To contract with individual or WANTED—To contract with individual or corporation financially responsible, who can furnish satisfactory references, to manufacture 15,000,000 feet or more of pine timber from stump to cars; equipment new and in first-class condition; consists of modern circular deck sawmill of 30,000 feet capacity daily; steam dryklin; planing mill; eight miles track; locomotive, logging cars and skidder; complete. Plant on ralirond in lower South Carolina. Address "Opportunity," P. O. Box 353, Charleston, S. C. OVER 100 FAMILIES living in tents around Henryetta, Okla., and no vacant room or house in the district. The Henryetta Development Company offers inducements and guaranty to the man or men who will erect 100 three, four and five-room cottages, also a six-story brick block. E. B. Miller, Secretary, Henryetta, Okla.

Miller, Secretary, Henryetta, Okla.

A REAL OPPORTUNITY for someone who can join me in marketing an article that fits in with the most widely discussed topic of the day, that is, sanitation and disease prevention. The article is endorsed by eminent State Health Officials and others, and it is freely predicted that it will become a positive necessity in every home. It is entirely new; fills a need supplied by nothing else; is sold at a popular price; every home will take several; profit to manufacturers 400%, and is protected by patent. A selling test has proven its commercial value. May be stamped out with one impression. Very little money is needed. I must turn the business over to the party who joins me, so I want a good man. The possibilities are immense and there is no risk assumed. The business must pay from the start, as I can easily prove. T. Box 189, Richmond, Va

FOR SALE, lease or development on shares, a large deposit of variegated marble, one mile from Sierra Blanco Station on the Southern Pacific Railway, in El Paso county, Texas. Address Owen & Walling, Sierra Blanco, Texas.

EXCEPTIONAL OPPORTUNITY.—I will cheerfully furnish full information to those interested in the manufacture of Chairs, Furniture, Glass, Fire Brick, Tiles, Patent Plaster, Cedar Hollowware, Barrels and Kegs, etc., concerning a most desirable location, between New York and Philadelphia, that possesses all possible advantages, with finest quality of raw materials on premises, Inducements to right parties. William H. Hunt, Secy.. 35 Nassau St., New York City.

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VIRGINIA.—Gentleman's country home to let for the winter; beautiful colonial house, furnished, with hunting privileges, 20 milewest of Richmond, on picturesque Upper James River; good train service and automobile road; local and long-distance phone; large brick, 18 well-lighted rooms, two baths, hot-water heat, open fireplaces; beautiful lawn; six acres; splendid hunting; many deer, fox, rabbits, quali, ducks, geese, wild turkey; close to mountain and ocean; delightful winter; never really cold; bright crisp days in which "to exist is to enjoy," W. E. Harris, 911 E. Main St., Richmond, Va.

## TYPEWRITER SUPPLIES

HIGHEST QUALITY TYPEWRITER SUP-PLIES.—Exclusively oil carbon and mineral coloring matter used in manufacture of car-bon paper, which enables us to guarantee absolutely clean work and permanent copies. Our ribbons are made of imported silk, giving much additional strength. They are guaran-teed non-filling and long wearing. Addres: A. Sylvester Edmonds, care of American Rib-bon & Carbon Co., 507 Gould Bidg., Atlanta, Gn. Please mention Manufacturers Record in writing.

## FACTORY SITES

FACTORY LOCATION; 30 acres in Sub-urbs of Cairo; Illinois Central and Big Four connections; will sell or lease. Address No. 1188, care Manufacturers Record.

FREE, FREE, FREE SITES FOR FAC-TORIES on reasonable conditions; splendid locations and transportation facilities; a growing, thriving city; 8 railroads; numer-ous steamship lines, and many other advan-tages. Address Ballentine Realty Corpora-tion, Norfolk, Va.

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## MISCELLANEOUS

MISCELLARIOUS

KENOVA, W. VA., offers unsurpassed advantages for manufacturing enterprisesfree sites, cheap gas, cheap coal, three trunkline raliroads with belt line and switches,
interurban electric line to cities in West
Virginia, Kentucky and Ohio; two navigable rivers; various kinds of raw materials
easily available; best markets economically
reached. Kenova-Huntington Land Co.,
Huntington, W. Va.

JANE LEW, in West Virginia's greatest gas field, wants industrial playis; cheap gas, cheap factory sites, good rairoad fa-cilities, pleasant and economical living con-ditions. Geo. B. Waggoner, Treas. Board of Trade, Jane Lew, W. Va.

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FOR SALE AT A SACRIFICE.—Lumber
manufacturing plant, located function three
trunk lines in South Carolina; best situation in State; 18,000 capacity sawmili,
50,000-foot kilns and 50,000-foot planing mili;
everything excellent condition, practically
new and in daily operation; paying handsomely and will bear closest investigation;
health and labor conditions perfect; plenty
timber cheap, to be paid for as cut, sufficient for 15 years' operation; easy terms
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FOR SALE—New saw and planing mill plant, daily capacity 40,000 feet; locomotive, trucks, track, 40 mules, log carts; good long supply of timber and more can be had; will sell sawmill without planing mill; reason for selling, too much other business. Address H. B. Wordehoff, Plant City, Fla.

### PLANING MILL AND WOODWORKING PLANT

FLANING MILL AND WOODWORKING PLANT
FOR SALE—Planing Mill and Woodworking Plant; now running. Has large building and Lumber Sheds, Dryklin, Flooring
Machine, End Matcher, Resaw, and equipment of machinery for making Sash, Doors,
Blinds and House-building materials. Has
railroad siding into yard; also Appalachian
Power Co, has substation adjoining. Cheap
power at hand. Situated in good town, with
fine water and climate and good building
prospects. Would sell machinery and lease
real estate. For further particulars address
C. F. Sanders, Wytheville, Va.

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ICE AND COAL BUSINESS in one of the best towns in Georgia; an ice factory on large lot lying between two railroads with about 400 feet front on each; a splendid opportunity for a successful ice and coal business. For particulars address C. R. Haskins, 507 Gould Bldg., Atlanta, Ga.

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RARE OPPORTUNITY for mill man to buy 5000-spindle cotton mill; capacity easily doubled; in pink of condition. For particu-lars address Texas Realty & Loan Co., Gon-

A SPLENDID MONEY-MAKING OPPORTUNITY.—A complete dry pressed brick plant, now in operation and making money; 2 4-mold Berg presses, up-draft and down-fraft kilns, complete oil-burning system, employes' village, commissary, everything practically new; unlimited supply of best shale in Texas; unable to supply demands; about one million brick sold for future delivery now; has a shipping radius of about 200 miles. This plant makes best brick and has largest territory of any plant in Texas. Owner has other business that demands attention, and will sell at a bargain. McDavid-Lanius Realty Co., Abliene, Texas.

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GRAIN ELEVATOR. WAREHOUSE AND STORE
GRAIN ELEVATOR. WAREHOUSE AND
STORE FOR SALE.—Established 1867; failure never known here; elevator, 3000 bushels; equipped in 1910 with Frick boiler, complete; large hay and straw packer, complete; large hay and straw packer, complete; large hay and straw packer, complete; brivate railroad siding; coal bins, jumber sheds, fertilizer building and additional warehouse; 7-room private residence and all outbuildings; postoffice, express business and ticket office; a rare chance for a hustler; located on the main line of the W. M. Ry; in rich farming section. Attractive terms to right party. No triflers need write. Act quickly. Write or make appointment to see the property. Address Sanford L. Shaffer, Thurmont, Md.

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FOR SALE-\$60,000 going steam electric-light plant; brand-new equipment; direct-connected automatic units-latest type; \$12,-900 gross income per annum; six franchises, local and long distance; \$20,000 possible bonus from surrounding towns. Part cash, part black cotton producing lands or gold bonds. Address Box 387, Hubbard City, Teras.

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